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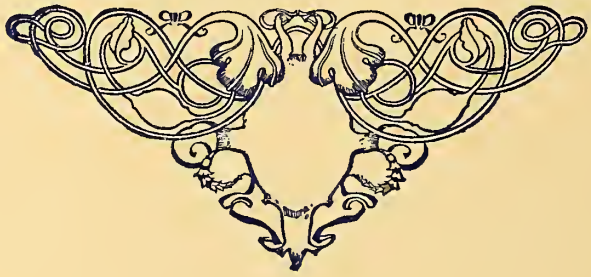

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Swales, Thomas
Toogood, W., Ltd.
Wattenbach, O.
Woolley, J., Sons & Co., Ltd.

Drugs, Crude
Burkett, Sharp & Co.
Gathergood's Exor.
Goodall, Backhouse & Co.
Potter & Clarke, Ltd.
Raimes & Co.

Earthenware Jars, &c.
Fulham Pottery and Chcavin Filter Co., Ltd.

Eau de Cologne
Bronnley, H., & Co., Ltd.
Farina, J. M
Farina, J. M. (No. 4)
Fickus, Courtenay & Co.
McCracken, J. & R.
Schutze, F., & Co., Ltd.

Educational Institutions
Bath & West of England College
Birmingham and Midland College
Borough Polytechnic
British Optical Institute
College of Preceptors
Elt's College
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
Rance, Miss E.
School of Pharmacy
South of England College
Westminster College

Effervescent Preps.
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
Bristol-Myers Co.
British Drug Houses Ltd., The
Cupal Ltd.
Evans Sons Lescher & Webb, Ld.
Guest, Thos., & Co.
Kerfoot, Thos., & Co.
Lorimer-Marshall, Ltd.
Shirley Bros., Ltd
Wright, Layman & Umney, Ld.
Wyleys, Ltd.

Elastic Hosiery
Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ld.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgical Hosiery Co., Ltd.
Wood, Vincent

Electrical Novelties
Evans Sons Lescher & Webb, Ld.
Simplex Conduits, Ltd.
Tokalon, Ltd.
Ward & Goldstone
Wright, Archd. J., Ltd.

Emery and Cloth
Oakey, J., & Sons, Ltd.

Emetine Salts
Carnegie Bros.
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd.

Emulsifiers
Bennett, Sons & Shears, Ltd.
Boothroyd, H. T., Ltd.
Wilkinson, S. W., & Co.

Emulsions, C.L.O., &c.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Stevenson, H. E., & Co.
Wyleys, Ltd.

Enamelled Hospital Requisites
Orme, Evans & Co., Ltd.

Endolytic Tubes
Fletcher, Fletcher & Co., Ltd.

End Runner Mills
Hardy Patent Pick Co., Ltd.

Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Warne, W., & Co., Ltd.

Epsom Salts
Howards & Sons, Ltd.
May & Baker, Ltd.

Essences, Sol. and Fruit
Alliance Drug & Chem. Co.
Barnett & Foster
Boake Roberts, A., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Stevenson & Howell, Ltd.

Ethers
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A. & Sons

Eucalyptus Oil
Allan, A. E.
British Drug Houses, Ltd., The
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.

Evaporators
Forshaw, E., & Son, Ltd.

Extracts (Medicinal)
Allen, Stafford, & Sons, Ltd.
Burroughs Wellcome & Co.
Curling, Geo., Wyman & Co.
Evans Sons Lescher & Webb, Ld.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W. & Son, Ltd.

Extract of Herbs
Newball & Mason
Potter & Clarke, Ltd.

Factory, &c., Sites
Great Western Railway

Feeding Bottles
Bush, H. W., & Co., Ltd.
Schutze, F., & Co., Ltd.

Filling Machines
Forgrove Machinery Co., Ltd.
Robert's Pat. Filling Mach. Co.

Flycatchers
Alabastine Co (British), Ltd.
Christy Strong
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Tunbridge & Wright

Foods, Invalid, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
British Casein Co. (1911), Ltd.
Cascin Ltd.
Fairchild Bros. & Foster
Fletcher, Fletcher & Co., Ltd.
Frame Food Co.
Harker, Stagg & Morgan, Ltd.
Horlick's Malted Milk Co.
Lofthouse & Saltmer, Ltd.
Natural Food Co., Ltd.
Numol, Ltd.
Plasmon, Ltd.
Sister Lauras Infant Food Co.
Southall Bros. & Barclay, Ltd.
Wander, A., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Sons & Co., Ltd.

Foot Appliances
Scholl Mnfg. Co., Ltd.

Fuller's Earth
Mumford, G. S., & Sons

Fumigators
Sanitas Co., Ltd.

Glycerin
Price's Patent Candle Co., Ltd.

Glycerophosphates
Anglo-American Pharm. Co.

Grease Remover
Perkin & Co., Ltd.

Grinders, Drug, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.

Grinding Machinery
Hardy Pat. Pick Co., Ltd.

Gripe Water
Woodward, W., Ltd.

Gums
Fink, F., & Co.
Kidston, W. M., & Co.

Hair Dyes
Harker, C. R., Stagg & Morgan

Hair Preparations
Alexandre, L.
Blackie, Robert
Edwards' "Harlene" Co.
Harrison, G. W.
Lindner, M.
Osborne, Garrett & Co.
Robare's Aureoline
Sangers

Hand Carts, Trucks, &c.
Crewe & Co.

Hat Cleaners
Christy, Thos., & Co.
Milner's Chemical Co.
Senier, Alfred, & Co.

Hat Dyes
Whitaker & Co.

Herbs
Potter & Clarke, Ltd.

Homœopathic Medicines
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

Horse Remedies
Harvey & Co. (Dublin), Ltd.

Hot Air Douches
Ward & Goldstone

Hotels
Kingsley Hotel
Thackeray Hotel

Hot Water Bottles
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Fulham Pottery & Chcavin Filter Co., Ltd.
Galen Manfg. Co., Ltd.
Schutze, F., & Co., Ltd.
Toogood, William, Ltd.
Wood, Vincent

Hydrogen Peroxide
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co. Ltd.

Hypnotics
Widenmann, Broicher & Co., Ld

Hypophosphites
May & Baker, Ltd.
Morson, T., & Son
Tyrer, T., & Co., Ltd.

Ink, Dichroic
Bewley & Draper, Ltd.

Ink Powder
Webster, T., & Co.

Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.

Insect Powder
Danysz Virus, Ltd.
Keating, Thomas
Potter & Clarke, Ltd.
Raimes & Co.

Insurance
London & Midland Insurance Co., Ltd.

Iodides
Morson, T., & Son

Junket Preparations
Cox, Arthur H., & Co., Ltd.

Lanoline
Burroughs Wellcome & Co.

Lard
Ewen, J., & Sons

Lavender Oil
Jakson, John, & Co.
Ransom, W., & Son, Ltd.

Lavender Water
Bush, W. J., & Co., Ltd.
Viuolia Co., Ltd.

Lecithin
Chem. Works "Victoria"

Lemonade Powder
Greenwich Lemonade Co.

Lime Juice and Cordial
Evans Sons Lescher & Webb, Ld
Goodall, Backhouse & Co.
Idris & Co., Ltd.

Linseed, Crushed, &c.
Mumford, G. S., & Sons

Lints
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Vernon & Co., Ltd.

Liquorice Juice
Apollo
Burgoyne, Burbidges & Co.
Drogueries & Huileries Anversoises, Ltd.
Evans Sons Lescher & Webb, Ld
Jackson, Ernest, & Co.
Mumford, G. S., & Sons
Solazzi

Lithia Salts
British Drug Houses, Ld., The
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

Loofahs
Hall Forster & Co., Ltd.
Internl. Sponge Importers, Ld
Solport Bros.
Swales, Thomas

Lozenges
Blyton, Astley & Co.
Cartwright, W. B., Ltd.
Denouai, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros., Ltd.

Machinery, Pharmacal
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Forgrove Machinery Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, John J., & Sons, Ltd.
Hardy Patent Pick Co., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Magnesia and Preps.
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ld.
Wigglesworth & Co.

Malt Extract and Preps.
Allen & Hanburys, Ltd.
Blackie, Robert
British Drug Houses, Ld., The
Burroughs Wellcome & Co.
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Curling, Geo., Wyman & Co.
Davies, Sons & Co
Evans Sons Lescher & Webb, Ld
Fletcher, Fletcher & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Saccharin Corporation, Ltd.

Marking Ink
John Bond ('Crystal Palace')

Measures, Graduated
Bush, H. W., & Co., Ltd.

Meat Extracts
Armour & Co., Ltd.
Brand & Co., Ltd.

Medical Coils
Ward & Goldstone

Menthol
Carnegie Bros.

Mercurials
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
Whiffen & Sons, Ltd.

Metal Clips
Griffin, John J., & Sons, Ltd.

Methylated Spirit
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd. [Co., Ld.
Riddell & Smith
Thornley, Samuel, Ltd.

Milk Sugar
Hollandsche Melksuikerfbrik

Mineral Waters, Salts
Apollinaris Co., Ltd.
Ingram & Royle, Ltd.

Mixers and Sifters
Gardner, Wm. & Sons (Glos.) Ld

Motor Carriers, Vans, &c.
James Cycle Co., Ltd.
Tilling, Thomas, Ltd.

Mustard Plaster
Blyton, Astley & Co.

Mustard Seed Oil
Johnson, J. H. & S.

Naphthalene
Burt, Boulton & Haywood, Ld.

Night Lights
Price's Patent Candle Co., Ld.

Oils, Essential
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co
Boake Roberts, A., & Co., Ltd.
Bouaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ld
Jakson, John, & Co.
London Essence Co.
Lueders, George, & Co.
Poppelreuter W.
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ld.

Oils, Minerals, Fatty, &c.
Allen, Stafford, & Sons, Ltd.
Price's Patent Candle Co., Ld

Ointments
Blackie, Robert
Burgess, E.
Oldfield, Pattinson & Co.

Optical Goods
Darton, F., & Co.
Raphael's, Ltd.
Standard Optical Co.

Optical Tuition
British Optical Institute, Ld.
College of Optics
Spectacle Makers Company

Orange and Quinine Wine
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

Organic Solvents
Hopkin & Williams, Ltd.

Organo-Therapeutic Preps.
Duncan, Flockhart & Co.

Otto of Rose (Synth.)
Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd
Warrick Bros., Ltd.
Wright, Layman & Umney, Ld.

Otto Rose (French)
Gattefosse et Fils

Overalls
Lilywhite, Ltd.

Packed Goods
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd., The
Cartwright, W. B., Ltd.
Corbyn, Stacey & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Curling, Geo., Wyman & Co.
Davies, Sons, & Co.
Evans Sons Lescher & Webb, Ld
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Lofthouse & Saltmer, Ltd.
Lorimer-Marshall, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd
Standard Tablet & Pill Co. Ld.
Toogood, W., Ltd.

Palatinoids
Oppenheimer, Son & Co., Ltd.

Paper Handkerchiefs
Powell, J. T., & Co.

Paraffinum Liquidum
Burgoyne, Burbidges & Co.
Price's Patent Candle Co., Ld.

Pastilles
Allen & Hanburys, Ltd.
Blyton, Astley & Co.
Burroughs Wellcome & Co.
Evans Sons, Lescher & Webb, [Ltd.
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Warrick Bros., Ltd.

Patent Agents
Barker, R. W.
Raworth, John E.

Pellets
Blyton, Astley & Co.

Peppermint Oils
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Jakson, John, & Co.
Ransom, W., & Son, Ltd.

Perfume Materials
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, T., & Co.
Lueders, George, & Co.
Naef, M., & Co., Succrs.
Wright, Layman & Umney, Ld.

Perfumes
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ld., The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Erasmic Co., Ltd.
Evans Sons Lescher & Webb, Ld
Fickus, Courtenay & Co.
Lescol Perfumery Co.
McCracken, J. & R.
Pazery, Richard
Potter & Clarke, Ltd.
Price's Co., Ltd.
Prichard & Constance, Ltd.
Quelch, H. C., & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ld.
Viuolia Co., Ltd.
Warrick Bros., Ltd.
West, T., & Son

Perles
Tye, John, & Son

Pessaries (Soluble)
Burge, Warren & Ridgley, Ld.
Rendell, W. J.

Petroleum Jelly
Chesebrough Manfg. Co.
Kidston, W. M., & Co.

Phosphorus and Preps.
May & Baker, Ltd.

Photo. Chemicals
Johnson & Sons (Manufactg. Chemists), Ltd.

Photo. Goods
Ayrton, Saunders & Co., L
Barclay & Sons, Ltd.
Burroughs Wellcome & C
Butcher, W., & Sons, Ltd.
Evans Sons Lescher & Webb
Express Developing Co.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.
Sangers

Photo. Postcard &c.
Rajar, Ltd.

Pill Makers
Blyton, Astley & Co.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howard Lloyd & Co., Ltd.
McKesson & Robbins
Standard Tablet & Pill Co.
Wand Manufacturing Co.

Plasters
Allcock Manufacturing C
Berliner, Arthur
Blyton, Astley & Co.
Dalmas, A. de St., & Co.
Galen Manufctg. Co., Ltd.
Thermogene Co., Ltd.
Timpson, John, & Co., Ltd

Pleated Paper
Darter, Wilkinson & Co.
Smith Bros. & Co., Ltd.

Pocket Lamps, Electric
Ward & Goldstone

Polishes (Variot)
Bradley & Bourdas
Oakey, J., & Sons, Ltd.

Postal Boxes
Robinson & Sons, Ltd.

Powder Paper
Lorimer, Marshall, Ltd.
Prichard & Constance, Lt

Printers
Ford, Shapland & Co.
Suttley & Silverlock, Ltd.
Townsend, J., & Sons
Waide, T., & Sons
Wilkinson, James F.

Proprietary Articles
Anglo-Amer. Pharm. Co., L
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Beecham, T.
Bell (John), Hills & Lucas, L
Bow's Liniment, Ltd.
Bresillon, M., & Co.
Browning, W., & Co.
Burgess, E.
Christy, T., & Co.
Coleman & Co., Ltd.
Corbyn, Stacey & Co., Ltd
Crimson Cross Dispensar
Cupal, Ltd.
Daisy, Ltd.
Davenport, J. T., Ltd.
De Roos, Johnson & Co.
Duncan, Flockhart & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb
Expurgo Manfg. Co.
Fellows' Med. Manfg. Co.
Fennings, Alfred
Ferris & Co., Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Gotar, Ltd.
Harrison, Geo. W.
Henry, T. & W.
International Laboratories
Kay Bros., Ltd.
Kuhnow, S., & Co., Ltd.
Kyho Proprietary, Ltd.
London Proprietary Co.
Martindale, W.
May, Roberts & Co., Ltd.
Midland Drug Co.
Mumford, G. S., & Sons
Newbery, F., & Sons, Ltd
Odol Chemical Works
Oppenheimer, Son & Co., L
Owbridge, W. T., Ltd.
Phillips, Chas. H., Chem.
Pneumosan Chemische-F
Primer, J.
Resinol Chemical Co.
Saccharin Corporation, Lt
Sanalak, Ltd.
Sanatogen Co.
Sangers
Sargol Co.
Scott & Bowne, Ltd.
Squire & Sons, Ltd.
Standard Tablet & Pill Co.
Thompson & Capper, Ltd.
Tunbridge & Wright
Warrick Bros., Ltd.
White, A. J., Ltd.
Wilcox, Jozeau & Co.
Woodward, W., Ltd.
Wright & Co.
Wright, Layman & Umney
Yanatas, Ltd.

Puffs
Solport Bros.

Quinine and Sal
Alliance Drug & Chem. Co
Carnegie Bros.
Corbyn, Stacey & Co., Ltd
Howards & Sons, Ltd

Radium and Salt
Hopkin & Williams, Ltd.

Razors
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Wright, Archd. J., Ltd.

Rennet Essence Powder, &c.
Lorimer-Marshall, Ltd.

Resins and Resinoids
Allen, Stafford, & Sons, Ltd.
Macfarlan, J. F., & Co.
Morson, T., & Son
Ransom, W., & Son, Ltd.
Smith, T. & H., Ltd.

Respirators
Immer & Co.

Rubber Goods
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warne, W., & Co., Ltd.

Rubber Stamps
Lichford, C. D.

Saccharin
Saccharin Corporation, Ltd

Santonin
Smith, B. A., & Co.

Saponin
Field, C. W.

Scientific Apparatus
Berkeen, Son & Co., Ltd.
Willischer, J.
Reynolds & Branson, Ltd.

Sea Salt
Sidman & Son, Ltd.

Seed Dressing
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

Seeds
Potter & Clarke, Ltd.

Serums and Antitoxins
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co., Ltd.
Evans Sons Lescher & Webb, Ltd
Parke, Davis & Co.
Willcox, Jozeau & Co.

Shampoo Powders
Standard Tablet & Pill Co., Ltd.

Shares
McAdam & Tuckniss

Sheep Dips
Burt, Boulton & Haywood, Ltd.
Tomlinson & Hayward, Ltd.

Shop Fittings
Ayrton-Graham, Ltd.
Cook, George
Evans Sons Lescher & Webb, Ltd
Edmonds, A., & Co., Ltd.
Farley & Co.
Grant, D.
Harris & Sheldon, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Ruddock & Co.
Sangers

Shoulder Straps
Wood, Vincent

Signs, Electric, &c.
Universal Sign Works

Silverware Toilet Goods
Scott, Adolph

Soap-making Plant
Forshaw, E., & Son, Ltd.

Soaps, Toilet, &c.
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Eucryl, Ltd.
Evans Sons Lescher & Webb, Ltd
Faulding, F. H., & Co.
Field, J. C. & J., Ltd.
Fulford, C. E., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McClintons, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ltd.
Resinol Chemical Co.
Wright, Layman & Umney, Ltd.

Sodium Bicarbonate
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S., & Sons

Soothers
Newbery, F., & Sons, Ltd.
Schutze, F., & Co., Ltd.

Spectacles
Darton, F., & Co.
Maw, S., Son & Sons

Spermaceti
Price's Patent Candle Co., Ltd.

Sphygmometers
Hicks, James J.

Spices
Goodall, Backhouse & Co.

Spirit of Wine
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

Sponges
Internl. Sponge Importers, Ltd.

Sprays
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Marvel Company
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

Sprinkler Corks
Betts & Co., Ltd.

Spruce Beer
Hobson, Joseph, & Son

Starch
Corn Products Co., Ltd.
Mumford, G. S., & Sons

Stills
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

Stoppers
Stipendum Stopper Co.

Strychnine
Carnegie Bros.

Surgical Appliances & Dressings
Allen & Hanburys, Ltd.
Berliner, Arthur
Blyton, Astley & Co.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Dalmas, A. de St., & Co.
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Marvel Company.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Quelch, H. C., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Thermogene Co., Ltd.
Timpson, John, & Co., Ltd.
Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

Suspensory Bandages
Bailey, W. H., & Sons

Syphons
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Sharman's Pat. Syphon Co., Ltd.

Syringes
Bush, H. W., & Co., Ltd.

Syrups, Medicinal
Fellows' Med. Mnfg. Co.
Sinalco Co.

Tablet Machinery
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Tablets, Compressed
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
British Drug Houses, Ltd., The
Brook, Parker & Co. Ltd.
Burgoyne, Burbidges & Co.
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd
Guest, Thos., & Co.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Johnson & Sons (Mfg. Chts.).
Lloyd, H., & Co., Ltd.
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd.
Thompson & Capper, Ltd.
Wand Manfg. Co.
Wigglesworth & Co.

"Tabloid" Products
Burroughs Wellcome & Co.

Tap Jars
Fulham Pottery & Cheavin Filter Co., Ltd.

Tartaric Acid
British Drug Houses, Ltd., The

Tea
Christy, Thos., & Co.

Teats
Ingram, J. G., & Son

Tin Box Makers
Goodall, Backhouse & Co.
Liverpool Tin Canister Co., Ltd.
Shirley Bros., Ltd.

Tinctures in Bond
Macfarlan, J. F., & Co.
Ransom, W., & Son, Ltd.

Tobacco
Singleton & Cole, Ltd.

Toilet Paper
Ayrton, Saunders & Co., Ltd.
Burgoyne, Burbidges & Co.
Ford, Shapland & Co.
Townsend, J., & Sons

Tooth Picks
Odol Chemical Works

Trade Marks Agents
Barker, R. W.
Ford, Shapland & Co.
Raworth, John E.

Trusses
Bush, H. W., & Co., Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Sangers
Schutze, F., & Co., Ltd.
Scientific Truss Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

Turned Wood Boxes
Rogers & Co.

Vacuum Flasks
Thermos, Ltd.

Vacuum Pans
Bennett, Sons & Shears, Ltd.

Valuers
Baker, P. C.
Berdoe & Fish
Brett & Co.
Orridge & Co.
Tomlinson, T., & Son

Vaseline
Chesebrough Manfg. Co.

Vermin-Killers
Christy, T., & Co.
Cupal, Ltd.
Danysz Virus, Ltd.
Evans Sons Lescher & Webb, Ltd
Farmer, F., & Co.
Harley, Thomas
Harrison, G. W.
Hawker, Arthur E.
London Hygienic Chem. Co.
Milner's Chemical Co.

Veterinary Instruments
Mason Bros. & Chapman
Maw, S., Son & Sons

Veterinary Remedies
Chesebrough Manfg. Co.
Christy, Thos., & Co. Ltd.
Day & Sons (Crewe)
Edwards, W., & Son
Harvey & Co. (Dublin), Ltd.
Senier, Alf., & Co.
Tomlinson & Hayward, Ltd.
Wyleys, Ltd.

Vinegar
Grimble & Co.

Water Glass
Barclay & Sons, Ltd.
Tomlinson & Hayward, Ltd.

Water Still
Brown & Sons
Stokes, F. J., Machine Co.

Waters, Concentrated
Robinson, B., & Co., Ltd.

Waxes
Price's Pat. Candle Co. Ltd.

Weed Killers
Harrison, G. W.
Tomlinson & Hayward, Ltd.

Window Fittings
Ayrton-Graham, Ltd.

Window Tickets
Merten, F., & Co.

Wines
Burrough, J., Ltd.

Wines, Medicated
Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd.
Idris & Co., Ltd.
Robinson, B., & Co., Ltd.

Wines (Non-Alcoholic)
Welsh Grape Juice Co. Ltd.

Wrapping Machinery
Forgrove Machinery Co. Ltd.

Wrist Straps
Solport Bros.

Zinc Oxide
Hubbuck, T., & Son, Ltd.
Stevenson H. E., & Co.

OLDFIELD, PATTINSON & Co.

TELEGRAMS:
"OPIUM MANCHESTER."

A RELIABLE HOUSE FOR
All Pharmaceutical Preparations.
CONCENTRATED WATERS
CONCENTRATED INFUSIONS.

B.P. Tincture. **OPIUM** Aqueous Tincture.

Syr. Glycerophosph. Co.

LIQUID EXTRACTS
LEVIGATED OINTMENTS
ESSENTIAL OILS.

"Silver Churn" Dairy Specialities.

Special Prices to Large Buyers. Write for List.

MANCHESTER.

CUXSON, GERRARD & CO., Ltd.,

OLDBURY,

wish to inform all their customers that they are compelled, owing to the present Crisis, to withdraw all prices. All orders received will have careful attention, but no guarantee can be given that full quantities, as ordered, can be dispatched. In every instance we shall execute orders at prices compatible with the present situation. Also that owing to the existing regulations with respect to traffic, our responsibility will cease when receipt for delivery of goods is received from the Carriers.

NO SHORTAGE OF

FRAME FOOD.

CHEMISTS SHOULD RECOMMEND IT.
PRICE MODERATE. PROFIT GOOD.

On P.A.T.A. List.

Showcards on Application.

FRAME FOOD CO.,

STANDEN ROAD,

SOUTHFIELDS, LONDON.

HELP OUR ALLIES.

Send for Illustrated List of

French & Belgian Bottles in Stock

LIMES, KALIS, MEXICANS, BRILLS, TOBINS, SHOW GLASSES, Etc., Etc.

Jules Lang & Son, Charlton Place, Islington, London.

"SURCO" SEAMLESS HOSIERY known throughout the trade as the **BEST.**

SPECIAL NOTE.—As an act of courtesy we have supplied "Surco" Seamless Hosiery to other manufacturers with their own trade mark or name thereon. This is now discontinued. All "Surco" goods are now marked "SURCO." Trade terms and particulars from the Sole Makers and Patentees—

THE SURGICAL HOSIERY CO., Ltd., RUSSELL STREET, NOTTINGHAM.

War Announcement

The

AMERICAN DRUG SUPPLY Co.

are doing business as usual. Prices have been slightly disturbed by the increased freight and insurance rates but no unfair advantage will be taken of the unusual conditions.

6 NORTHUMBERLAND AVE., LONDON, W.C.

SAPONINE

(SOLUBLE),

MANUFACTURED BY

C. W. FIELD, LTD.,

Cambrian Mills, LIVERPOOL.

Special Terms to Wholesalers and large Consumers.

SAL HEPATICA

PUT UP FOR EXPORT.

Small	Size,	3 oz.	bottle,	in cases
Medium	"	7 "	"	"
Large	"	16 "	"	"

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

The American Drug Stores, Trafalgar Bldgs., 6 Northumberland Avenue, London, W.C.

Burgoyne, Burbidges & Co., 16 Coleman St., E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.

Roberts & Co., 76 New Bond Street, W.

Supply of Drugs affected by the War.

SALICINE.

In the "Confidential Circular" addressed to the Medical Profession by the Home Office, August 17, 1914, **SALICINE** is mentioned in the Salicylate Group as being in short supply.

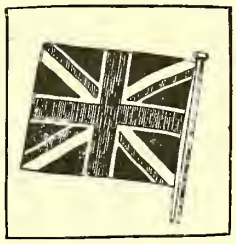
However, for the information of the Medical Profession and Pharmacists generally, the British Manufacturers beg to intimate that they have **full supplies of SALICINE sufficient for 2 years' normal consumption. Orders will be promptly executed at current price through the usual wholesale channels.**

"BUSINESS AS USUAL."

S. MAW, SON & SONS
7 to 12, ALDERSGATE ST.
LONDON, E.C.

Maw's Page.

No. 150 AUGUST 29, 1914



NOTES & NEWS

THE holiday season is reviving.

* * * *

A LONDON Evening Newspaper stated on Saturday last :—" Hardly without exception the railway companies admitted 'good holiday business.' A small section of the public has cancelled its arrangements, but this is more than balanced by the thousands who, unable to go abroad, are visiting the English resorts after many years of absence."

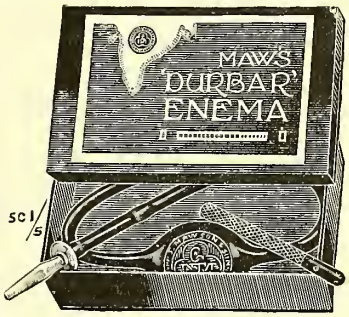
* * * *

UNDOUBTEDLY, Maw's Holiday lines should still form the keynote of your window displays.

ENTIRELY BRITISH MADE! MAW'S DURBAR ENEMA. 17/6 DOZEN

WHAT more could we say as a guarantee of perfection—entirely British made? What better proof of the excellence of the "Durbar" Enema can we offer?

EVERY "Durbar" is put up complete with elastic gum vaginal pipe & leather shield. The "Durbars" are attractively boxed, and they can be supplied without labels if desired. The "Durbars" are made in red rubber with velvet finish, and in black rubber with enamel finish. 17/6 doz. usual discount. The "Durbars" meet the growing desire of the British public for British Goods.



SURGICAL DRESSINGS

THE demand made upon our stocks of bandages, gauzes, lints, wools and all surgical dressings during the last few weeks, enormous as it has been, has caused no delay in the execution of orders.

LOWEST PRICES.

We have made further arrangements, as complete as possible, for continuing the supplies at lowest rates; and we shall be glad to submit quotations.

The large number of Ambulance Corps and First-Aid Societies now being formed should offer a good opportunity to Pharmacists to extend trade in this direction.

FREE SHOWCARD.

To assist our customers we have prepared a showcard bearing a red cross and the following words: REQUISITES FOR HOSPITALS AND AMBULANCE SOCIETIES. It measures 10 in. by 8 in., and we should be pleased to send one on request.

MAW'S 'Eugenic' Feeding Bottle

You *must* be convinced of the selling value of Maw's "Eugenic" Transparent reversible teat and valve—best British white glass bottle—flattened side permits leaving it with infant—supplied with free brush for cleansing. Each in strong box. These are the features which have made the "Eugenic" a standing success.

NO INCREASE IN PRICES

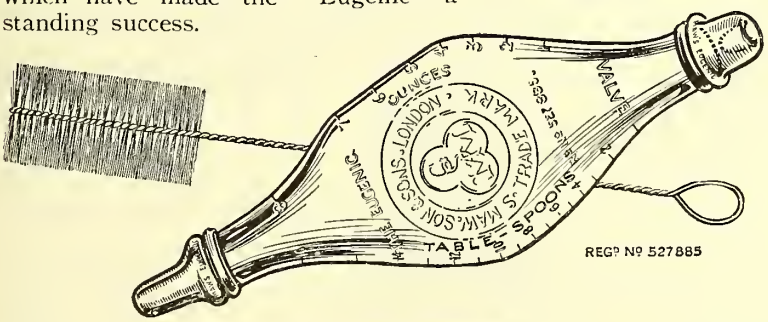
	doz.
Feeding Bottle complete in Box with Brush ...	8/6
Valves, Pure Transparent Rubber	2/-
Teats, Pure Transparent Rubber	2/-
Spare Bottles	2/9

MINIMUM RETAIL PRICE.

	each.
Feeding Bottle complete in Box with Brush ...	1/-
Valves	4d.
Teats	4d.
Spare Bottles	6d.

Maw's "Eugenic" Feeding Bottle, Regd. No. 527,885.

ORDER THE "EUGENIC" NOW.



THE WAR

ITEMS RECEIVED WHILE GOING TO PRESS.

It is officially announced from St. Petersburg that the Russian advance is proceeding in Prussia with irresistible force, and they have crossed the Vistula. Germans retreated to Osterode.

We hold the largest selection of Ambulance Boxes and First-Aid Requisites. Write to us for quotations.

OF ESTABLISHED REPUTATION AND UNIVERSAL DEMAND.

JOHNSON'S

Photographic Preparations

AZOL, SCALOIDS, SOLUTIONS, PACKETS, MOUNTANT, ACID-FIXING, Etc. Etc.

Sell readily at good profits and give satisfaction to the purchaser.

Illustrated Price List sent on application.

JOHNSON & SONS, *Manufacturing Chemists, Limited,*
CROSS STREET, FINSBURY, LONDON.

AUSTRALIAN TRADE.

H. B. SLEEMAN & CO., LTD.,
***of* 84 Leadenhall Street, London, E.C.**
invite correspondence respecting suitable agencies on behalf of

Messrs. FRANCIS LONGMORE & CO.,
***Of* BOURKE STREET, MELBOURNE.**

WANTED.

THYMOL

Send prices and quantities to

69/13, c/o The Chemist and Druggist,
42 Cannon Street, London, E.C.

ELECTRIC POCKET LAMPS
REFILLS & BULBS

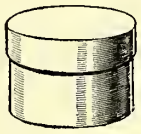
We hold large stocks and can give immediate deliveries at slightly increased prices.
WRITE FOR LATEST LISTS.

SPECIAL SAMPLE OFFER:
One doz. pocket lamps, all different, retailing 1/- to 3/-
post free 12/6.

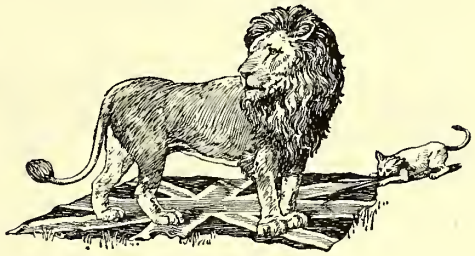
ARCHIBALD J. WRIGHT, LTD.,
Manufacturing Electricians,
41 Beech Street, Barbican, London, E.C.

(NO. 1 OF THE BRITISH LION AND THE PILL BOX)

SUPPORT



HOME INDUSTRIES



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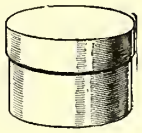


ROBINSONS' MAKE.

THE BRITISH LION WILL DEMONSTRATE WEEK BY WEEK IN THIS SPACE THE GOOD POINTS OF THE BRITISH PILL BOX, AND THE REASONS FOR ALWAYS SPECIFYING ROBINSON'S MAKE WHEN ORDERING PILL BOXES FROM YOUR WHOLESALE HOUSE.

ROBINSON & SONS, LTD., CARDBOARD BOX MANUFACTURERS TO THE CHEMIST TRADE. CHESTERFIELD.

GEORGE LUEDERS & CO.

NEW YORK, 218, 220 & 211 Pearl Street. **CHICAGO,** 301 W. Randolph Street. **SAN FRANCISCO, CAL.,** 11 Main Street.

MONTREAL, 396 St. Paul Street. **MEXICO CITY,** Av. Independencia 10.

Letters address : P.O.B. 1498 NEW YORK. Cable address : "GUALACUM."

Import and Export :

Essential Oils, Olive Oil, Vanilla Beans, Natural and Synthetic Perfumers' Materials.

A. W. SCHWARZ

Chemical Manufactory, ALTSTETTEN-ZURICH, SWITZERLAND.

Specialities :

SYNTHETIC PERFUMES

Abricotine, Amber
Ambrette, Ambrettine
Apple Blossom
Bergamott (Artificial)
Biancol, Birosine
Bouvardine, Capucine
Carnation, Cassie
Castoreum
Chirassol, Citral
Clover (Trèfle)
Coumarine, Cyclamine
Fern liquid
Fixateur, Fleuréol
Gardenia, Genetol
Geraniol, Glycine
Géranium-Roseine
Heliotrope (white)
Heliotropine, Honey
Honeysuckle
Hyacinth, Indol
Irine A., Irine B
Irine C., Irine D.
Iris of Florence
Iris liquid. Lavender
Linalool
Lilac Flower
Lily of the Valley
Lime Flower (Tilleul)
Mignonette (Réséda)
Mimosa, Musc C.
Musc Xylène
Musc liquid
Monoviola
Narcissus, Neroli
New-Mown Hay
Pelopomine
Peony
Radialine, Raldiné
Rose de Dijon
Rose d'Orient
Roseine
Royal Oak
Safranor

ESSENTIAL OILS

Special Violet
Sweet Pea
Thyme, Trefline
True Violet
Tuberose
Vanilline
Violet Flower
Violet Verdure
Violet d'Azour
Wallflower
White Violet
Ygeana
Ylangol (artificial)
Yranol

Price List and Samples on demand.

ENGLAND
EXPECTS
THAT
EVERY
MAN
WILL
DO
HIS
DUTY.

YOUR DUTY. OUR DUTY

if we cannot volunteer for Active Service, is to "keep on" at home. Patriotism and business interests both demand it.

We are resolved to do our duty. We will do all we can to make business easy. We will stand by all our old friends and customers, and help them also to "keep on keeping on."

We hear on every hand of new and harsh conditions imposed on the retail trade, prices advanced, discounts cancelled, credit cut off, and cash demanded! Our prices, discounts and credit terms remain unchanged.

The war is creating a big demand for "Daisy." The excitement and anxiety of these stirring times is causing multitudes of splitting headaches and nervy pains of just the kind that a "Daisy" and forty winks so quickly and completely cures.

Are you fully prepared to supply the popular demand? Have you a good stock of "Daisy"? Have you our showcards and dummies displayed in the window, to remind the public where to buy? It will pay you well to keep "Daisy" to the front. There's a large and profitable business to be done, which you can't afford to miss.

We solicit your orders and inquiries direct. We will gladly send you a few showcards and dummies in response to a postcard.

WRITE NOW.

DAISY LTD., Mammoth Works, LEEDS.

The THERMOGENE

£1 : 15 : 10 profit on an

THIS OFFER WILL NOT BE REPEATED.

This is the time for co-operation. We want to help our retail friends and we want them to help us. In order that the public may know where to obtain supplies of Thermogene for themselves and for their friends who have been called to active service, we want to have a window display in every pharmacy in the Kingdom. We are prepared to benefit you handsomely if you will help us. Here is our offer.

WHAT YOU MUST DO:

1. Order **at least** six dozen Thermogene at 9/6 per dozen, less 5% (carriage forward).
   The 2/9 packets may be included in the above in proportion of one 2/9 packet for every two 1/1½ packets, the 2/9 packets being chargeable at 24/- per doz. *less* 5%.
2. Your order must be sent before the end of September.
3. You must send cash with order.
4. You must give a three weeks' window display of Thermogene during October.

IN RETURN WE WILL GIVE YOU,

ABSOLUTELY FREE, A BONUS OF

1½ doz {1/1½ size} THERMOGENE

This offer cannot be repeated. It is strictly limited to orders received during September and to benefit by it you must send your order at once.

Order through your Wholesaler, or from

FASSETT & JOHNSON, 86, Clerkenwell Rd., E.C.

THE THERMOGENE COMPANY, Ltd.

HAYWARD'S HEATH, SUSSEX.

ONUS OFFER

ıtlay of £2 : 14 : 2

FREE SUPPLY OF WINDOW MATERIAL.

A display of Thermogene in your window will attract a large number of customers who will buy Thermogene, not only for themselves, but to send to their friends on active service. We will assist your efforts by furnishing you free with a full supply of attractive Window Material, including our new Red Cross and Military Showcards, etc.

Thermogene is an article of established reputation. It is the standard remedy for rheumatism, sciatica, lumbago, neuritis, throat and chest troubles. It is the best known and quickest selling line in the Pharmacy, and brings rich profit. There is no risk—no wastage—no breakage.

Owing to the restricted postal service you are advised that this will be the only intimation of the offer set forth on the opposite page, and no circular matter will be sent you as in previous years.

SEND YOUR ORDER NOW, AS THIS OFFER WILL NOT BE REPEATED.

Order through your Wholesaler, or from
FASSETT & JOHNSON, 86, Clerkenwell Rd., E.C.

THE THERMOGENE COMPANY, Ltd.
HAYWARD'S HEATH, SUSSEX.

The Trade
WAR with GERMANY

Patriotism calls on the CHEMISTS of GREAT BRITAIN and IRELAND to refuse, with one accord, to purchase Disinfectants of German origin as thereby indirect monetary assistance would be given to an alien enemy.

AN ALL - BRITISH DISINFECTANT,

ARKRYL

Manufactured from British materials by British labour, and owned by an English house, is now available. It is equal, if not superior, in every respect to the preparation hailing from the Fatherland of the Enemy.

It cannot be too strongly emphasised that the profits on German preparations said to be made in England, but probably only finished off here to give them an appearance of British origin, are almost certain to ultimately reach Germany and swell the volume of flow in the "pipe line" conveying golden nutriment to the Land of the Enemy. Of what avail is even entire manufacture in England if the profit goes to our bitter and ruthless foe, whose sole object at the present moment is to encompass our ruin by any means in her power?

PRICES.

	4 oz. Bots.	8 oz. Bots.	16 oz. Bots.	32 oz. Bots.	1 gall. Tins
Retail	**7½d.** each	**1/-** each	**1/9** each	**3/-** each	**12/6** each
Trade	**4/9** doz.	**8/-** doz.	**13/6** doz.	**24/-** doz.	**8/6** ,, net.

SOLE PROPRIETORS OF

ARKRYL — The All-British Disinfectant for Surgical and General Use. Higher Carbolic Co-efficient (Rideal-Walker). Forms a clear solution with distilled water. Non-corrosive to steel instruments. Detergent and powerfully disinfectant. Far less poisonous than Carbolic Acid.

ARKOL — An ideal Petroleum Laxative Oil. Absolutely Tasteless, Odourless, and of the highest Purity. Never varies.

ARKOLAX — A pleasantly flavoured Laxative Confection.

C. R. HARKER, STAGG & MORGAN, Ltd.

WHOLESALE DRUGGISTS, MANUFACTURING AND ANALYTICAL CHEMISTS,

DEVON WHARF, EMMOTT ST., MILE END, LONDON, E.

Telegraphic Address : "EDULCINE, EDO, LONDON." Telephone No. : EAST 215.

WAKE UP, ENGLAND!

Business as usual.

"ERASMIC"
Eau de Cologne.

Retail Prices:
1/3 2/3 3/6
No Cutting.

Don't support the Common Enemy by buying German Eau de Cologne.
"ERASMIC"
IS BRITISH AND BEST.

Retail Prices:
1/3 2/3 3/6
No Cutting.

REFRESHING AND LASTING.

ELEGANT SHOWCARDS FREE.

TRIAL SAMPLE
ON APPLICATION.

ERASMIC,
Perfumers,
LONDON. PARIS.

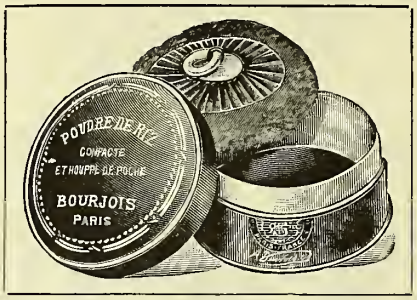
FASHIONS CHANGE!

and let us be thankful for it.
TO-DAY the fashion is

SOLID FACE POWDER (*POUDRE COMPACTE*)

Bourjois of Paris is the Powder House.

Our Solid Powder, with Puff,
No. 65
IS THE BEST.



MADE IN SEVEN TINTS.

ROSE, NATURELLE,
RACHEL, BLANCHE,
ROSETTE BRUN,
OCREE, & MAUVE.

6s. per dozen.

1 Gross lots can be printed with customer's own name.

DO NOT BE MISLED BY BUYING CHEAP AND WORTHLESS IMITATIONS OF THIS ARTICLE.

May be obtained from all the Wholesale London and Provincial Houses, or from

HENRY C. QUELCH & CO., 4 Ludgate Square, LONDON, E.C.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the Kingdom.
BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office; 4 India B'ngs, Water St., Liverpool.

GLASS BOTTLES *OF EVERY DESCRIPTION FOR CHEMISTS, DRUGGISTS, PERFUMERS AND KINDRED TRADES.*

PRICES ON APPLICATION.

J. B. GAASCH, ANTWERP, BELGIUM.

Cables—BOTTLE-ANTWERP.

S.V.M.

Best Quality Only.

RANDALL & SON,

Limited.

Wholesale and Export Druggists,

SOUTHAMPTON

Patriotism and Profits

In making your arrangements to meet the present natural determination of all true Britons to insist upon goods of British manufacture—remember that McClinton's Soaps and Toilet Preparations are owned and manufactured entirely by loyal subjects of His Majesty, and that it will be the endeavour of the proprietors "to carry on as usual" a business upon which the inhabitants of Donaghmore are almost entirely dependent. Remember, too, that the profits to yourself in handling McClinton's products are *above* the average. Their unique qualities alone have won an increasing popularity throughout the Empire for

McClinton's Colleen Soap and Toilet Preparations

FREE FROM ANIMAL MATTER OR MINERAL SODA.

Used and recommended by some 200 members of the British Aristocracy, and our guarantee of satisfaction or money refunded covers every preparation we manufacture.

LORD ROBERTS and LORD CHARLES BERESFORD use and recommend McClinton's Shaving Soaps.

McClinton's "Colleen" Soap, box of 3 cakes, 1/-. McClinton's Toilet Cream, 1/-. McClinton's Talcum Powder, in tins, 9d. McClinton's Tooth Powder, in tins, 6d. McClinton's "Hibernia" Shaving Stick, 1/-. McClinton's Shaving Cream, in opal jars, 6d. and 1/-. McClinton's "Colleen" and "Sheila" Perfumes, 1/-, 1/6, 2/6, and 4/-. McClinton's "Colleen" Shampoo, Wet or Dry, 2d. a packet, 7 for 1/-.

Write To-day for Price List and Trade Terms.

McClinton's, Ltd., Donaghmore, Ireland

Pure Rectified Re-distilled Spirit

FINEST QUALITY S.V.R.

Quotations and Samples on application to

James Calder & Co. Ltd.
Distillers, BO'NESS, N.B.

Telegraphic Address: "Distillers Bo'ness."

Telephone No.: 12 Bo'ness.

METHYLATED SPIRIT

Makers of Industrial and Mineralised Spirit

QUOTATIONS & SAMPLES ON APPLICATION TO

RIDDELL & SMITH, Methylators, Bo'ness, N.B.

CHEMISTS
PLEASE NOTE.
NO EXTRA STOCK.
NO RESPONSIBILITY.
NO TROUBLE.
HANDSOME PROFIT.

Why not add to your income without trouble and without extra stock? There must be many among your customers who, known to you, wear an **ARTIFICIAL LIMB** or other **APPLIANCE.** Advise them to come to us. We are makers of the highest class of Limbs and Appliances, and no time or effort is spared to make each case a success. Simply send us a card to say that you have mentioned our name to Mr. or Mrs. ——, of ——, or send their name and address, and we will forward them a catalogue. In either case, should business result, we credit you with a substantial commission from 10 to 25% according to the nature of instrument supplied, and a cheque is sent on the 1st of the month following. We should be pleased to supply you with catalogues, in English, French, or German, for distribution, and give any information you may require.

J. & E. FERRIS, 33 MUSEUM STREET, NEW OXFORD STREET, LONDON, W.C.

F.S.M.C.

The letters F.S.M.C. appended to the name of an Optician denote that he is a Freeman by Examination of the

SPECTACLEMAKERS COMPANY.

The next Examination will be held at the St. Bride's Institute, Ludgate Circus, E.C., on November 9, 10, 11 and 12 next.

Full Syllabus, Regulations and Entry Form may be had on application to the Clerk of the Company.

Col. T. DAVIES SEWELL, F.R.A.S., 9, 10 & 11 Temple House, Temple Avenue, LONDON, E.C.

THE INSTITUTE OF OPTICS.

Instruction for the Spectaclemakers Company's Examinations is given under the supervision of the official instructor of the Guild.

For particulars address: **MR. LIONEL LAURANCE,**
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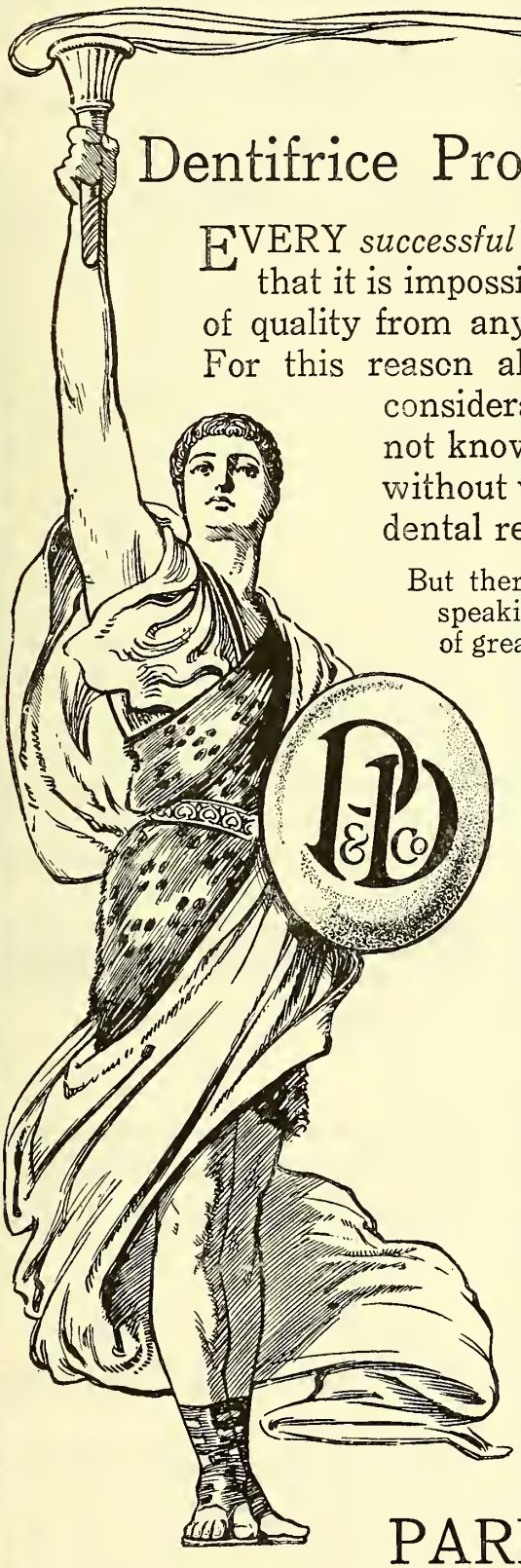

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TWOPENNY TINS	13/- ,,
Blue Seal No. 1 size, in boxes of 1 gross ...	18/6 ,,
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,, 2 ,, ,, 1 ,, ...	37/- ,,
Collapsible tubes, No. 1 size, 2/6. No. 2 size, 5/- doz.	
No. 1 size, bottle, in cardboard case ...	3/- per doz.
,, 2 ,, ,, ,, ,, ...	5/- ,,
½-lb. tins, round	6/3 ,,
1 ,, ,, square	10/6 ,,
5 ,, ,, ,, ...	30/- ,,
10 ,, ,, ,, ...	5/- per tin.
25 ,, ,, ,, ...	12/- ,,
50 ,, ,, ,, ...	23/- ,,

White.

Twopenny Tins (three doz. in box) ...	13/6 per gross.
Collapsible tubes, No. 1 size	3/4 per doz.
,, ,, ,, 2 ,, ...	5/3 ,,
Blue Seal, in bottle, carton	3/6 ,,
No. 1, 3-oz. size, in cartons	6/- ,,
,, 2, 6-oz. ,, ,, ...	10/- ,,
½-lb. tins, round ,, ...	10/- ,,
1 ,, ,, square ,, ...	17/- ,,
5 ,, ,, ,, ,, ...	60/- ,,
10 ,, ,, ,, ,, ...	9/3 per tin.
25 ,, ,, ,, ,, ...	22/- ,,
50 ,, ,, ,, ,, ...	41/6 ,,

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½-lb. tins, round	4/- per doz.
1 ,, ,, square	6/8 ,,
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25 ,, ,, ,, ...	7/6 ,,
50 ,, ,, ,, ...	13/4 ,,
Half-barrels, about 1½ cwt.	28/- per cwt.
Barrels, about 3 cwt.	24/6 ,,

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1-lb. tins	7/- per doz.
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In jars	9/3 per doz.
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No. 0 size bottle	8/3 per doz.
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1 gallon cans	10/4 per tin.

Analgic	9/- per doz. tubes.	
Borated	4/6, 7/6	,,
Camphorated	5/-, 7/6	,,
Capsicum ...	5/7, 9/-	,,
Carbolated ...	4/3, 7/6	,,
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Collapsible Tubes	4/3
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,, 2 ,, ...	17/6 ,,

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Blue Seal No. 1 size, in boxes of 1 gross ...	20/- per gross.
,, 1 ,, ,, 3 dozen ...	20/6 ,,
,, 2 ,, ,, 1 ,, ...	62/- ,,
Collapsible Tubes	2/9 per doz.
No. 1 size, bottle, in cardboard case ...	3/10 ,,
,, 2 ,, ,, ,, ,, ...	7/9 ,,
White and Quinine Pomade	8/3 ,,

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One size, in bottles (for the Hair) ... 6/9 per doz.

"Vaseline" Soaps.

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3d. tablets, boxes of ½ doz. tablets, 27/- per gross tablets.

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3d. tablets, boxes of ½ doz. tablets, 27/- per gross tablets.

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Delicately perfumed, box of 3 tablets, 5/- per doz. tablets.

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3d. tablets, boxes of 6 tablets ... 27/- per gross tablets.

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FOR THE HAIR & BEARD (in Three Shades),

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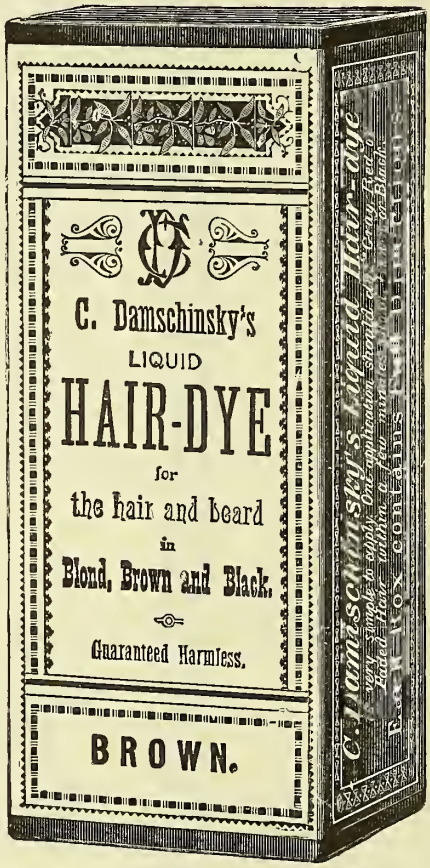
It contains no injurious substance. Dyes the Hair, whether grey or red, to any colour—from the finest blonde to the deepest black. It is efficacious and reliable. The oftener the colour is used, the darker becomes the shade of hair—so that the original colour of hair may be retained. It is a Dye, not a bleach. Will not give dark hair a light shade.

For orders of not less than 6 dozen, we give 1,000 Counter Bills with customer's own name and address as agent.



For quantities of not less than 2 gross, we print customer's own name and address on labels as agent.

PRICES:

1/3 Size:

9/- per Doz.

2/- Size:

12/6 per Doz.

CERTIFICATE.

This is to certify that I have examined C. DAMSCHINSKY'S LIQUID HAIR DYE, and find it to be free from all substances which might have an injurious effect, provided that the directions be adhered to. Especially is this preparation free from salts of lead and silver.

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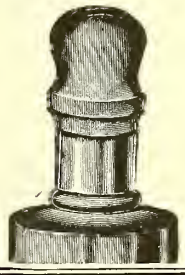

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The whole Catalogue has been revised and various new features introduced.

Especial attention is called to the coloured illustrations at the commencement of the volume.

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Every tin of VITAFER sold by British Pharmacists means employment for British workers.

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is now being prepared for publication.

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DRUGS

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A New List has been issued and inquiries are solicited.

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ESTAB 1859

THE CHEMIST & DRUGGIST

Winter Issue
Jan. 30, 1915

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„ Magnesium Glycerophosphate

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„ Sodium Glycerophosphate

'TABLOID' Brand—

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A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

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SUMMARY.

Resumption of German chemical-trade by way of Holland is being considered (p. 45).

A meeting in London has passed resolutions on how to carry on business as usual (p. 43).

We explain the manufacturing processes for chloral hydrate and paraldehyde on p. 42.

Mr. Robert Brodie, of Glasgow, one of the most beloved of Scottish pharmacists, died last week (p. 49).

The annual report of the Government Laboratory contains some points of interest to the drug-trade (p. 53).

A Committee on Drug Supplies has been nominated by the Pharmaceutical Society to work with Government nominees (p. 59).

Some dissatisfaction is expressed with the manner in which the Insurance Commissioners are paying the extras for war prices (p. 51 and p. 63).

Trading with the enemy is approaching more stringent conditions. See Judge Shearman's remarks on p. 48, a statement by the Treasury on p. 38, and a question and answer in Parliament on p. 50.

Numerous advances have again occurred in the chemical and drug markets, and prices change from day to day. We give a good selection in our Trade Report as a guide. Glycerin is 5*l* dearer (p. 60).

Something about the *C. & D. Diary, 1915*, will be found on p. 54. Makers of known, admitted, and approved remedies who would like a reference number for them should send the formulas to us as soon as possible.

The European War section of this issue contains the rules issued under the Act for appropriating patents, trade-marks, and designs registered by alien enemies. It is necessary that those who desire to use these should have the goods ready to replace the original articles (p. 41).

The Report of the Select Committee of the House of Commons on Patent Medicines was published on Wednesday. It is vituperous and voluble in style, stating, *e.g.*, that the traffic in secret remedies constitutes a grave and widespread public evil; and that these remedies are put on the market by ignorant persons or by cunning swindlers, who "exploit for their own profit the apparently invincible credulity of the public." The Findings and Recommendations are given in full (pp. 45-47).

European War.

One to Us.—"The literary contents are always to the Front in times of Peace and War." This epigrammatic compliment to THE CHEMIST AND DRUGGIST was sent on August 19 by a dispensing chemist, with a renewal of his subscription, which also is one of the things to do in these stirring times as at others.

The Moratorium.

During the past week the Commissioners of Inland Revenue, Somerset House, have, on behalf of the Treasury, issued forms to business houses asking for expressions of opinion as to whether or not the moratorium should be extended beyond Friday, September 4, when the one at present in force expires (see also p. 50).

Exportation Regulations.

A Proclamation modifying those of August 3, 5, and 10, relating to the exportation of certain warlike stores, provisions, and victuals, has been issued, under which nitrate of soda and creosote have been deleted from the list of prohibited export articles. The ports of Belgium are added to the list of ports excepted from the prohibition of August 5, and articles are mentioned which may be exported to Belgium. The new list of prohibited foodstuffs is much simpler than the old. It is as follows: Wheat and wheat flour, barley and oats, animals (living) for food, butter, margarine, cheese, eggs, sugar (unrefined), sugar (refined and candy), molasses and invert sugar, jams and marmalade, milk (condensed, sweetened or not).

Exportation of Medicines.

We referred last week to the difficulty in which manufacturers are placed by the prohibition of exportation of certain drugs and chemicals. Since then matters have developed beyond the point specially noted in our paragraph. A much more important grievance arose in the case of manufacturers with large orders received for preparations of drugs on the prohibited list. The question was whether these would be allowed to be exported after they were made up. The routine application requires particulars to be filled in when the order is ready for shipment, but manufacturers felt that they must have authorisation to proceed before they began to manufacture. Applicants to the Commissioners of Customs and Excise were told that the Commissioners had no power in the matter; they could only carry out the terms of the proclamation. Referred to the Privy Council, the applicants were there told that the point must be referred to the Commercial Department of the Board of Trade. When this Department was appealed to, no official could be found to discuss the matter, and the applicants were invited to write. One morning last week a dozen extremely exasperated men left the Board of Trade with anything but a high opinion of the courtesy they had met. By the intervention of a member of the Government, a personal interview was obtained with two of the heads of the Board, and a few minutes' talk was sufficient to convince these gentlemen of the necessity of some change in the procedure. The points raised were quite new and had never been considered. It was ultimately agreed that firms should submit to the Board of Trade copies of all their orders for export. These would be placed before the special Committee which is sitting daily to decide questions that arise, and authority to proceed is to be given at once or intimation made where prohibition would be enforced. In this way manufacturers can at once set to work on the authorised orders, and when these are ready application has to be formally made for licence to export as prescribed by the regulations. Special drugs were then discussed, and a general understanding was reached regarding quinine, mercurials, bromides, and alcohol, as a result of which the firm making the inquiry hope to be able to start work on orders to the value of over 10,000*l*. which have accumulated since the proclamation was issued. The question as to "fine chemicals" was also discussed at the interview, and it was agreed that the submission of orders

to the Committee would cover questions as to the definition of fine chemicals, all of which will be decided as they arise.

Since the foregoing was written a hitch appears to have taken place in the Board of Trade offices, whereby the goods referred to have not been released for exportation. The position is so seriously crippling Australian, Canadian, Colonial, and Indian business that the Drug Club has prepared and presented to the Board of Trade a statement of the position, signed by all the members of the Club, which means the leading firms in Great Britain. This statement has been presented by the Secretary (Mr. T. Edward Lescher), and it is expected that it will have a favourable result. Something must be done promptly, else Continental houses will get the business which our home firms are delayed in executing. A strong effort is being made in Germany to get export trade resumed—*e.g.*, through Holland. The Proclamation regarding trading with the enemies applies to the British Empire, and not merely to the home trade, so that the German move does not necessarily mean that Germans will get this British business, but Switzerland is expected to be in the market as usual ere long, and American houses are also looking after business. Our Board of Trade staff are heavily worked at present, but they could get the help of many commercial men in relieving the congestion of detail pertaining to particular trades whose export business is at present stopped.

Trading with the Enemy.

The following official announcement was issued by the Treasury on Friday evening, August 21:

Some doubts having arisen as to the meaning and application of the Proclamation against trading with the enemy, the Government authorise the following explanation to be published:

(1) For the purpose of deciding what transactions with foreign traders are permitted, the important thing is to consider where the foreign trader resides and carries on business, and not the nationality of the foreign trader.

(2) Consequently, there is, as a rule, no objection to British firms trading with German or Austrian firms established in neutral or British territory. What is prohibited is trade with *any* firms established in hostile territory.

(3) If a firm with headquarters in hostile territory has a branch in neutral or British territory, trade with the branch is (apart from prohibitions in special cases) permissible, as long as the trade is *bona fide* with the branch, and no transaction with the head office is involved.

(4) Commercial contracts entered into before war broke out with firms established in hostile territory cannot be performed during the war, and payments under them ought not to be made to such firms during the war. Where, however, nothing remains to be done save to pay for goods already delivered or for services already rendered, there is no objection to making the payment. Whether contracts entered into before war are suspended or terminated is a question of law which may depend on circumstances, and in cases of doubt British firms must consult their own legal advisers.

This explanation is issued in order to promote confidence and certainty in British commercial transactions; but it must be understood that, in case of need, the Government will still be free to impose stricter regulations or special prohibitions in the national interest.

This explanation entirely corroborates the statements in the Editorial article in our issue of August 22, p. 47.

British Chemicals.

Mr. Edmund White, managing director of Hopkin & Williams, Ltd., in an interview with the "Daily Telegraph" regarding the manufacture of chemicals in this country, laid particular stress on the difference between German and British technical instruction. He contends that German technical schools are conducted on practical lines, but that in this country the teaching is mostly academic. Mr. White is of opinion that the military discipline enforced in Germany has a good deal to do with the success of that country in trade. He advocates greater facilities being granted for the use of duty-free alcohol.

Mr. Sigismund Kutnow, in the same journal, pointed out that "the British Government should guarantee to English manufacturers who are willing to invest their money in the production of chemicals and drugs in this country a fair protective treatment for a number of years. This would then be an incentive to manufacturers to invest capital more largely and to young chemists to go into better training for the work in question."

Dr. F. Mollwo Perkin, son of the late Sir William Perkin, the discoverer of aniline dyes, has given his views to the "Evening Standard" regarding the manufacture of fine chemicals in this country. He mentions the antipyretics and synthetic indigo, and states that he has been approached by several people in London in regard to the manufacture of these chemicals. In regard to Government assistance to chemical-manufacturers Dr. Perkin states:

"The starting of a chemical-manufactory requires great practical experience and special plant. I have approached several leading manufacturers, and I find that there is a desire to help the country, but the question arises: Will the Government assist them in founding these new industries?

One manufacturer said: 'We shall be establishing an infant industry at a time of great stress. It is natural to ask whether the infant will be given a chance of becoming a healthy child. Government Departments and public institutions consume large quantities of chemicals which they now know to their cost are only manufactured abroad. It would go a long way towards encouraging manufacturers to establish these industries if the Government would come forward with a scheme to secure the use in the public services, as far as possible, of British-manufactured articles without unduly bolstering up any particular industry.'

The question of cheap alcohol for the manufacture of fine chemicals will also require to be considered, because this is the reason why the Germans have in many cases been able to manufacture and supply the market more cheaply than we could.

I hope the Government will appoint a small committee of chemical experts and business men, who could consult with the chemical-trade of the country and find out what branches the present manufacturers could most readily take up. It might ultimately be advisable to start special works to manufacture articles which cannot at present be made. Such a committee should be appointed at once and report within the shortest possible time."

Bayer's Chemical-works.

The "Berliner Börsen Courier" of August 19 states that the directors of the Farbenfabriken vorm. Friedr. Bayer & Co. in Leverkusen issued on August 18 a circular referring to the effect of the mobilisation in Germany on the course of their business. Following is a translation of the circular:

"Since the order for mobilisation went out business in aniline dyes and by-products has been completely at a standstill, as more than 20 per cent. of our output is usually exported, and the export of dye-stuffs has now been prohibited. During the early phases of mobilisation pharmaceutical products were in excellent demand, but this demand has now also fallen off considerably. We shall be compelled quite shortly completely to close our works, because we shall then have such large stocks that we should not feel justified in adding to them. Even if the official prohibition of the exportation of dye-stuffs from Germany should be abrogated, and it should again become possible to export, *viâ* Italy, to America and to the Far East, we should not be able to count upon having our works employed to the extent of more than one-third of their capacity. The directors declare that the order prohibiting the export of dye-stuffs is useless and should be annulled, and, further, that it is urgently necessary for the German Government to make arrangements to secure the carriage of goods through Switzerland to Genoa, or through Austria to Trieste."

Photographic Supplies.

The "British Journal of Photography" states that "there is every indication of photographers being able to obtain supplies of chemicals at more moderate prices than had at first appeared probable. We learn that the price of hypo in particular is tending to a reasonable level, and that the chemicals necessary for development will be shortly produced in England. Meanwhile, photographers will do well to exercise strict economy in dealing with any stocks which they may have in hand."

Zeiss's London Works.

The statement which we published last week (p. 37), on the authority of the "Photographic Dealer," regarding the seizure of Zeiss's optical works at Mill Hill by the military authorities, was incorrect. In fact, Mr. C. M. Playfair, director of Carl Zeiss (London), Ltd., states that this and other statements made by our contemporary (but not repeated in the *C. & D.*) "are utterly devoid

of truth. The company are now engaged, and have since the erection of the factory been engaged, in supplying the British Government with quantities of goods." The Editor of the "Photographic Dealer" "absolutely and unqualifiedly withdraws and apologises for the statements made."

The Supply of Willow Boxes.

Chip boxes are made from *Salix alba*, the white willow. According to Mr. E. M. Holmes, the boxes are made in Hamburg, where the wood is cut up in factories and served out to workpeople, who make the boxes in their own homes. Probably, he suggests, this accounts for the fact that they are made cheaper in Germany than in England. The problem, now that the supply is cut off, is to find alternative manufacturers, as the stocks in this country are small.

Canadian Feeling.

An English pharmacist in Canada, writing to us by the last mail, concludes as follows :

"When you read this, I am afraid your thoughts will be distracted by the terrible European war which has broken out. We, in Canada, watch with tears in our eyes, but pride in our hearts, for the welfare of England is our care too. The war is the topic of all conversation; the streets are lined and thronged with citizens anxiously waiting to hear the latest news. Many meetings are cancelled, among these, I think I am safe in saying, the Canadian Pharmaceutical Convention at Winnipeg. While it is not definitely decided not to hold the meeting, I know that as the delegates from Halifax have notified the Secretary that they cannot attend, and British Columbia has also sent word to the same effect, there is a strong possibility that it will not be held this year. No one can settle down to business with these unusual happenings. Canada will be to the front, as ever. The ties of love will be stronger than ever after this."

The patriotic fervour of Canada at this time of national stress is already well known, and it is satisfactory to know also that the drug-trade of the Dominion is equally sympathetic. We had an assurance of this from Mr. Theo. H. Wardleworth, F.L.S., of Montreal, who has been visiting the Old Country. Mr. Wardleworth's ties are now in Canada, where as a director of the National Drug and Chemical Co. of Canada, Ltd., he is head of the buying section of the business. Mr. Wardleworth says the war is to revolutionise the commerce of the world, and is opening up possibilities of trading with the Mother Country which were, perhaps, not well understood before. For example, we in the Old Country have been over-reliant upon the European Continent for the products of the destructive distillation of wood, such as wood naphtha, acetic acid, acetone, methyl alcohol, and formaldehyde. All these are made abundantly in the provinces of Ontario and Quebec, and the Mother Country can get all she wants from Canada, if not at present, as soon as her needs are known and Canada's output can be increased.

Cash and Credit.

The following remarks are quoted from "Kemp's Mercantile Gazette" as being particularly appropriate at the present time :

"There always must and will be some credit, as it is the very life-blood of trade and business. A sudden universal decree for cash payments would simply paralyse all commerce. Such a thing is impossible, and, indeed, it is unthinkable; yet there are many ways in which an unnecessary length of credit can be curtailed gradually, and cash payments encouraged, to the great good of traders and the community. Long credit has done much to breed a class of business which is really sheer speculation, and in which retailers always rely upon getting cash for the goods they buy long before having to pay for them. This sort of gambling trade can only go on where excessive credit is rather recklessly given. Our trade—and especially our home or internal trade—must be maintained and kept going. This can only be done by the giving of credit carefully, and the getting in of cash wherever possible. There is no need for the wholesale houses to give way to a passing panic, and insist upon cash with order, as some have tried to do. Such a course will be ruinous to themselves and injurious to business generally. But a saner system of credit can be devised, with a more thorough inquiry into the position of proposed customers. This war is going to act as a vast cleansing and sifting process, and those traders who survive the strain will have learnt many valuable lessons. Long and reckless credit is over. Another point arises on the needless and absurd credit which habit has made usual with many retailers and their customers. Financially and economically it is certain that such a system can only be fairly described as being rotten. Many customers nowadays pay cash for their goods and get their value. After all, it is the circulation of cash that is the life-blood of business, far more than the action of credit, although, of course, one is based upon the other. But in times of stress prompt payment becomes essential to the vigour of trade."

Shop Assistants.

We have received the following statement from the Home Office :

"The Home Secretary desires to bring to the notice of all shopkeepers and retail firms the following resolution unanimously adopted at a conference of all the leading London traders last week :

'That it is neither desirable nor necessary in existing circumstances to dismiss any assistants, but that if economies in the carrying-on of business are necessary, they should be met by other means.'

The Home Secretary hopes that this resolution will be generally acted on by retail traders. If this is done, any serious difficulties in connection with employment so far as the retail trades are concerned will be avoided. There is every reason to suppose that in a short time these trades will return to normal conditions."

The firms represented at the conference were departmental stores and drapery establishments chiefly.

First-aid Instruction in Manchester.

Mr. James Grier (President of the Manchester Pharmaceutical Association) sends us a copy of a circular of which the following is the substance :

"The Committee of the Manchester Chemists' Assistants' Association has under consideration the practicability of arranging courses of instruction for chemists' employés in first aid, etc., under the British Red Cross Society, with a view to rendering service in the present crisis in such ways as may be found necessary. An invitation is issued to all employés in the wholesale and retail drug-trade to avail themselves of this opportunity, and such are asked to communicate at once with the Secretary, when a meeting will be called to explain more fully the objects in view."

In a covering letter Mr. Grier remarks :

"If dispensers are to secure their proper status in the R.A.M.C., some acquaintance with military routine and methods is necessary. The scheme of the Assistants' Association has as its object the formation of a complete Aid Detachment under the British Red Cross Society, which may probably develop into something of the nature of a permanent Pharmaceutical Service Corps, in Manchester. Courses of instruction in first aid, sanitation, etc., will be arranged, and the appeal is to all classes of employés. A meeting will be held shortly to explain more fully the object in view, and all interested should communicate at once with Mr. W. Jones, 45 Newland Street, Higher Crumpsall, Secretary of the Manchester C.A.A."

Some Trade Matters.

"Little doing" is the bagman's verdict at the conclusion of his day's round. Credit customers are slow in paying up, and chemists are afraid of war prices. Wholesalers are accused of hoarding Continental chemicals and surgical dressings for higher prices, the retailer overlooking the fact that contracts have been annulled and higher cash prices have been paid to get any supplies at all. Signs are not wanting of return towards peace prices, but the real need is for mobility of money supplies.

The drapers were the foremost among tradesmen to adapt themselves to the new conditions created by the war crisis. They attacked with great adaptability the problem of supplying Red Cross munitions. Cheap calicos that had become unsaleable were cut up into bandage widths and rolled by shop-assistants, who would otherwise have had little else to do. The demand for ambulance teaching in large towns has decreased considerably, but the smartest drapers have filled in what threatened to be a bad business interval with comparative success. The next raid now beginning is on comforts for soldiers and "Terriers." Chemists could do something on these lines. The public buy not only for their soldier friends but for their own use.

In connection with the scheme which the Board of Trade has initiated for assisting British manufacturers and traders, cables have been despatched to H.M. Trade Commissioners in Canada, South Africa, Australia, and New Zealand, and to British consular officers in South America, China, Japan, and Egypt, asking them to report on the financial and commercial conditions in their districts, and as to the likelihood of regular payments being forthcoming for goods supplied. Replies have been received from South Africa, Canada, Australia, New Zealand, Brazil, Argentina, and China. The Canadian Commissioner reports that the approximate value of the import trade from Germany is three millions sterling, and a list of goods in which British firms might extend their trade includes crude glycerin, litharge, optical instruments, perfumery, medicinal products, and gelatin. The British Consul-General at Buenos Aires reports that the preponderating share of the trade is already in the hands of British firms.

Personalia.

Judge John Peebles, chemist and druggist, Kirkcaldy, is to supply drugs and appliances during the war free to the wives and families of soldiers on active service.

Mr. A. H. Owen, late Staff-Sergeant R.A.M.C., and dispenser for Messrs. Exell Bros., Sheffield, has rejoined the Colours, and is taking charge of a hospital at Grantham.

Mr. W. Ford, chemist and druggist, 50 King Street, Maidstone, has been called up for service with the Royal Army Medical Corps, but his business will be carried on as usual during his absence.

Mr. A. Bate, chemist and druggist, of Messrs. Bate & Gorst, Market Street, Lancaster, is doing special duty as dispenser at Bowerham Barracks, Lancaster, the depôt of the King's Own Royal Lancaster Regiment.

Mr. A. Mortimer (Hon. Secretary of the Harrogate Pharmaceutical Association) has suggested, through the columns of a local paper, that if the general public would ask the advice of their chemists in making their purchases, this would help greatly in conserving the stock of chemicals in the country.

We have received from Professor Dr. A. Tschirch, of Berne, communications dated August 18 giving us assuring news in regard to the American pharmaceutical party which visited that city on July 29. He adds: "All Englishmen staying in Switzerland are in good condition. I am receiving The Chemist and Druggist regularly."

Mr. E. F. Bathurst, Ph.C., Woburn Sands, Beds, is an altruist. He has the following notice in his window:

A War Guarantee!

I guarantee that, let the goods and carriage cost what they may, nothing shall be sold at my pharmacy at an increased price during the war, however long it may last.

Mr. J. Y. Fairweather, dental chemist, Sydenham Road, S.E., has received a pencil-written postcard from a client at the front, in which he says:

Dear Sir,—I have enlisted in the Army, and am now on active service. If I return, I'll come to you for the teeth that you were doing for me. I hope you had an enjoyable holiday.—Yours, etc.

The card is stamped "Passed by Censor," and bears no address, but the writer sketched a Union Jack upon it.

Miscellaneous.

In Antwerp the sale of alcohol has been confined to chemists only.

Japan, in consequence of the war, wants drugs badly, according to a Board of Trade circular.

Messrs. Tidman & Son, Ltd., have not increased the prices of their sea salt and table salt, and are keeping their entire staff employed at full wages.

The Society of Apothecaries has decided to discontinue all its usual public entertainments, and to devote the money to charitable funds connected with the war.

The Bradford Chamber of Trade has printed and distributed cards for placing in shop-windows announcing that the occupants with foreign names are British subjects.

The Board of Trade has fixed the maximum retail cash price for granulated sugar at $3\frac{3}{4}d.$ per lb., lump sugar $4\frac{1}{4}d.$, American lard $8d.$, and margarine $9d.$ per lb. from August 20 to August 28.

The Oxo Company have presented one ton (value 700*l.*) of Oxo to the Prince of Wales's Fund, and have undertaken to store it free of charge, and pay carriage on it in small or large quantities as it is required.

Owing to the stoppage of cyanide supplies from Germany for the mills at the Rand arrangements have been completed under which the cyanide will be specially prepared in Scotland and forwarded to the mines.

Radium, like some other things which come from the countries of our "alien enemies," exists in fair quantity in London, for there were good stocks before the war, and more is forthcoming from Colorado.

The Universities of Liverpool and Durham have intimated that the next terms will begin as usual, and that steps will be taken to safeguard the interests of students who have been called up for service at home and abroad.

Messrs. H. Bronnley & Co., Ltd., soap and perfumery manufacturers, Bronnley's Corner, Acton Vale, London, W., have presented 10,000 tablets of soap to the British Red Cross Society as part equipment of kit-bags for field use.

The International Sponge Importers, Ltd., in addition to presenting 5,000 surgical sponges to the Red Cross Society, have given 100 guineas to the Prince of Wales's Fund. These were erroneously stated last week as the gifts of Cresswell Brothers.

In view of the situation arising out of the war, the Royal Colleges of Physicians and Surgeons have decided to hold a special Final examination on September 8, to which candidates will be admitted under special conditions. The Society of Apothecaries have made a similar arrangement.

Messrs. A. P. & F. H. Ledsham, chemists and druggists, Wimbledon, announce that, owing to their assistants having been called up for service in the Royal Army Medical Corps, they are unable to maintain a full service at 16 High Street, Swanley (Kent), which shop will be opened from 6.15 to 9.15 P.M. until further notice.

The British Red Cross Society have accepted 200 emergency bottles of Lysol and 1,000 gals. of the antiseptic in 1-gal. tins presented by Charles Zimmermann & Co. (Chemicals), Ltd., who are now making the preparation in London. Mr. Arthur R. Ling, F.I.C., is now associated with Mr. E. J. Parry, B.Sc., in the guarantee of the quality of the product.

A central transport exchange has been established by the Imperial Motor Transport Council at 173 Fleet Street, London, E.C. Firms desirous of finding work for motor-vehicles should give the following particulars:

Make of vehicle, horse-power, age, nature and amount of load usually carried, and information as to whether they are prepared to hire or only to sell. Firms requiring vehicles should state nature and extent of loads to be carried, and whether they are prepared to purchase or only to hire.

Sir Donald MacAlister, K.C.B., Principal of Glasgow University, has issued, through the Press, an assurance that the University of Glasgow will safeguard as far as possible the academic interests of undergraduate students called to active service. In relation to attendance on courses of instruction, duration of study, periods of notice required, etc., account will be taken of a student's absence on military duty, so far as the Ordinances permit. The Durham University session will begin as usual, and this applies to other seats of learning.

Prince of Wales's National Relief Fund.

This Fund on August 27 reached a total of 1,760,000*l.* Among the subscribers since our last issue are the following:

Mr. David Brown, F.R.S.E. (Edinburgh), 100*l.*
Carless, Capel & Leonard, 500*l.*
J. F. Macfarlan & Co. (Edinburgh), 100*l.*
T. & H. Smith, Ltd. (Edinburgh), 250*l.*

Messrs. T. & H. Smith, Ltd., have also contributed 100*l.* to the Belgian Relief Fund.

It may not be known to chemists as a body that their assistance in augmenting this fund is specially desired. We have had an interview with one of the staff brought together by Mr. C. Arthur Pearson for voluntary service in this matter, and learn that the way in which chemists can give appreciable and appreciated service to the cause is to place collection-boxes on their counters and ask customers to contribute. Our readers may ask, Where can collection-boxes be obtained? We reply that every chemist has numerous potential collection-boxes in his premises, empty pill-tins and the like, in the top of which he can make a slit for the coins. The Fund is not spending any money on expenses; everything done for it is done voluntarily and without pay. Every penny contributed to the Fund is to be spent in helping the wives and families of those who are fighting for us along with the French against the Germans. The announcement regarding the Fund on p. 52 is suitable matter for pasting on the box, and we suggest that chemists should take out periodically the coins collected and send a cheque or P.O. for the equivalent to Buckingham Palace. Cheques should be made payable to H.R.H. the Prince of Wales, and crossed "Bank of England, National Relief Fund." Envelopes should be clearly marked "National Relief Fund," and need not be stamped. Communications relating to the administration of the Fund should be addressed to the Secretary, National Relief Fund, 3 Queen Anne's Gate, Westminster, S.W. All matters relating to the collection of subscriptions are dealt with at York House, St. James's Palace, London, S.W.

New Patent Rules.

The Statutory Rules and Orders made by the Board of Trade under the Patents, Designs, and Trade-marks (Temporary) Rules, 1914, were published this week. The new rules are as follows:

By virtue of the provisions of the Patents, Designs, and Trade-marks (Temporary Rules) Act, 1914, the Board of Trade hereby make the following rules:

1. The Board of Trade may, on the application of any person, and subject to such terms and conditions, if any, as they may think fit, order the avoidance or suspension, in whole or in part, of any patent or licence granted to a subject of any State at war with His Majesty, and the Board, before granting any such application, may require to be satisfied on the following heads:

(*a*) That the patentee or licensee is the subject of a State at war with His Majesty;

(*b*) That the person applying intends to manufacture, or cause to be manufactured, the patented article, or to carry on, or cause to be carried on, the patented process;

(*c*) That it is in the general interests of the country or of a section of the community, or of a trade, that such article should be manufactured or such process carried on as aforesaid.

The fee to be paid on any such application shall be that specified in the First Schedule to these Rules, and the fee payable on depositing foreign documents or other papers for the purpose of a record not already provided for under the Patents and Designs Act, 1907, and the Trade-marks Act, 1905, shall be that specified in the First Schedule to these Rules.

An application under this section must be made on Patents Form No. 36 contained in the Second Schedule to these Rules, and shall be filed at the Patent Office.

The Board of Trade may at any time, in their absolute discretion, revoke any avoidance or suspension of any patent or licence ordered by them.

For the purpose of exercising in any case the powers of avoiding or suspending a patent or licence, the Board of Trade may appoint such person or persons as they shall think fit to hold an inquiry.

Any application to the Board for the avoidance or suspension of any patent or licence may be referred for hearing and inquiry to such person or persons, who shall report thereon to the Board.

Provided always that the Board of Trade may at any time, if in their absolute discretion they deem it expedient in the public interest, order the avoidance or suspension in whole or in part of any such patent or licence upon such terms and conditions, if any, as they may think fit.

2. The Comptroller may, at any time during the continuance of these Rules, avoid or suspend any proceedings on any application made under the Patents and Designs Act, 1907, and the Trade-marks Act, 1905, by a subject of any State at war with His Majesty.

3. The Comptroller may also at any time during the continuance of these Rules extend the time prescribed by the Patents and Designs Act, 1907, or the Trade-marks Act, 1905, or any rules made thereunder, for doing any act or filing any document, upon such terms and subject to such conditions as he may think fit in the following cases, namely:

(*a*) Where it is shown to his satisfaction that the applicant, patentee, or proprietor, as the case may be, was prevented from doing the said act, or filing the said document, by reason of active service or enforced absence from this country, or any other circumstances arising from the present state of war, which, in the opinion of the Comptroller, would justify such extension;

(*b*) Where the doing of any act would, by reason of the circumstances arising from the present state of war, be prejudicial or injurious to the rights or interests of any applicant, patentee, or proprietor as aforesaid.

4. The term "person" used in these Rules shall, in addition to the meaning given thereto by Section 19 of the Interpretation Act, 1889, include any Government Department.

5. All things required or authorised to be done by to or before the Board of Trade may be done by to or before the President or a Secretary or an Assistant-Secretary of the Board, or any person authorised in that behalf by the President of the Board.

All documents purporting to be orders made by the Board of Trade and to be sealed with the seal of the Board or to be signed by a Secretary or an Assistant-Secretary of the Board or by any person authorised in that behalf by the President of the Board shall be received in evidence and shall be deemed to be such orders without further proof unless the contrary is shown.

A certificate signed by the President of the Board of Trade that any order made or act done is the order or act of the Board shall be conclusive evidence of the fact so certified.

6. These Rules shall come into operation as and from the seventh day of August, 1914.

The first schedule fixes the fee payable on application under Rule 1 at 2*l*., and the fee payable on depositing foreign documents or other papers for the purpose of a record not already provided for at 2*s*. 6*d*. The second schedule gives the wording of the application form.

Procedure to be Followed under Rules 2 and 3 of the above Rules.

Until further notice the following procedure will be adopted in dealing with all work in connexion with Patents, Designs, and Trade-marks:

1. During the continuance of the war no Patent will be sealed and no registration of a Trade-mark or Design will be granted to subjects of any State at war with His Majesty (hereinafter called "such subjects").

The term "such subjects" will be taken to include (*a*) a firm which by reason of its constitution may be considered as managed or controlled by such subjects or the business whereof is wholly or mainly carried on on behalf of such subjects, (*b*) a Company which has received its constitution in an enemy's State, (*c*) a Company registered in His Majesty's Dominions the business whereof is managed or controlled by such subjects, or is carried on wholly or mainly on behalf of such subjects.

2. As regards Applications for Patents, Designs, or Trade-marks, no distinction will in the first place be drawn between those made by such subjects and those made by other persons. All proceedings thereunder will be carried on as usual down to the time of acceptance, but in the case of applications by such subjects formal acceptance will not be issued.

3. Applicants who fail to conform to the provisions of the Patents and Designs Act, 1907, the Trade-marks Act, 1905, and the Rules made thereunder will run the risk of losing their rights, unless they are able to bring themselves under the provisions of Rule 3 of the Rules set out above. Applications under Rule 3 (*a*) should be made and will be considered at such time as the applicant, patentee, or proprietor of a Design or Trade-mark as the case may be is in a position to do the said act or file the said document as aforesaid. Applications under Rule 3 (*b*) should be made before the date for the doing of any such act.

4. As regards Oppositions to the grant of Patents and the registration of Trade-marks, arising after the commencement of the war, (*a*) Oppositions by such subjects in cases where the grant or registration opposed is one to a British citizen or alien friend will not be entertained. (*b*) In the case where the grant or registration opposed is a grant or registration to any such subject, the Notice of Opposition will be accepted, but all further proceedings will be suspended until the end of the war.

5. As regards inventions communicated by such subjects as aforesaid in respect of which Patents are applied for by persons in this country, these will be treated in the same manner as if made directly by the communicator.

Trade-mark Rules.

The corresponding rules regarding trade-marks are as follows :

By virtue of the provisions of the Patents, Designs, and Trade-marks (Temporary Rules) Act, 1914, the Board of Trade hereby make the following Rules :

1. The Board of Trade may, on the application of any person, and subject to such terms and conditions, if any, as they may think fit, order the avoidance or suspension, in whole or in part, of the registration of any Trade-mark the proprietor whereof is a subject of any State at war with His Majesty, and the Board, before granting any such application, may require to be satisfied on the following heads :

(*a*) That the proprietor is the subject of a State at war with His Majesty;

(*b*) That the person applying intends to manufacture, or cause to be manufactured, the goods or any of them in respect of which the Trade-mark is registered;

(*c*) That it is in the general interests of the country or of a section of the community, or of a trade, that the registration of the Trade-mark should be so avoided or suspended.

The fee to be paid on any such application shall be that specified in the First Schedule to these Rules.

An application under this section must be made on Form T.M. No. 36 contained in the Second Schedule to these Rules, and shall be filed at the Patent Office.

The Board of Trade may at any time, in their absolute discretion, revoke any avoidance or suspension of any registration of a Trade-mark ordered by them.

For the purpose of exercising in any case the powers of avoiding or suspending the registration of a Trade-mark the Board of Trade may appoint such person or persons as they shall think fit to hold an enquiry.

Any application to the Board for the avoidance or suspension of any registration of a Trade-mark may be referred for hearing and inquiry to such person or persons, who shall report thereon to the Board.

Provided always that the Board of Trade may at any time, if in their absolute discretion they deem it expedient in the public interest, order the avoidance or suspension in whole or in part of any such registration of a Trade-mark upon such terms and conditions, if any, as they may think fit.

Rules 2, 3, and 4 are similar to 4, 5, and 6 under Patents.

The fee payable on application under Rule 1 to the Board of Trade to avoid or suspend the registration of a trade-mark is 2*l*.

These rules are subject to the new provisions of a Bill to amend the Act which was introduced in the House of Commons on Tuesday, and is referred to on p. 50.

The Manufacture of Chloral.

THOSE who have read the article in last week's issue of The Chemist and Druggist (p. 46) will not be surprised to hear that the whole of the chloral hydrate used in this country is imported. This is entirely due to the difficulties in obtaining the concession from the Revenue authorities to use pure alcohol. It is true that an import-duty is charged on the imported article on a basis of the alcohol employed in its manufacture, but this is no compensation to the chemical-manufacturers who could easily make chloral here. It is hoped that efforts which are now being made will be successful in inducing the authorities to make the needful concessions. Chloral was discovered by Liebig so long ago as 1832, and there is no question of patent-rights involved. Liebig's method of acting on alcohol with chlorine is the one employed on the manufacturing scale. We give here the details of the manufacture of chloral on a large scale :

Absolute alcohol contained in glass carboys is connected with a chlorine-generating apparatus, and a current of chlorine allowed to pass into the alcohol. When 120 to 150 lb. of alcohol is employed the current must be maintained for from twelve to fourteen days, during which time the temperature rises to 60° to 70° C., and the product acquires a density of 41° B. Roscoe states that the carboys of alcohol are surrounded by cold water, which is gently heated with steam so soon as the chlorine ceases to be absorbed. When the action is complete the crude product is purified by heating it with an equal weight of sulphuric acid in copper vessels lined with lead. Considerable quantities of hydrochloric acid escape at first, and when the evolution has ceased the product is distilled, chloral passing over in the fraction at 95° to 100° C. This is redistilled, and the distillate, consisting of chloral, is converted into chloral hydrate by mixing 12.25 parts of it with 100 parts of water. The hydrate is then either allowed to solidify in cakes or is poured into vessels one-third filled with chloroform to crystallise. In place of chloroform other solvents may be employed, a mixture of ethylene chloride and ethidene chloride, obtained in the preceding process as a by-product, being made use of in practice.

It will be interesting to the trade to receive intimation of the manufacture of this product in this country. Who will be the first to make it on a commercial scale?

Paraldehyde.

The rise in price of paraldehyde is also connected with the Continental supply of the product. The aldehyde which is polymerised into paraldehyde is obtained commercially from the first runnings of alcohol stills, special forms of stills being employed for the separation of the aldehyde fraction. The best yield of the product is obtained from alcohol manufactured from potatoes and from the sugar-beet. In the absence of aldehyde produced by fractional distillation the product could be obtained by Liebig's method of oxidising alcohol with manganic salts. Paraldehyde is obtained from aldehyde by adding at ordinary temperature a few drops of concentrated sulphuric acid, evolution of heat and contraction taking place. On cooling the liquid to 0° C., paraldehyde crystallises in large prisms and is separated from the other substances.

Photographic Exhibition.

THE fifty-ninth annual exhibition of the Royal Photographic Society of Great Britain is being held at the Gallery of the Royal Society of British Artists, Suffolk Street, Haymarket, London, W. The exhibition, which was opened on August 24, and is to remain open until October, is usually held at this time, and, acting upon the principle of "business as usual" during the war, the Council decided to carry on the work to a conclusion. It may be added that the Prince of Wales's National Relief Fund is to benefit from the exhibition, as it has been decided to devote half the admission-fees to that Fund, and, in addition, to place collecting-boxes in the Gallery, so that those who have the right of free admission may contribute. The exhibition itself struck us as quite up to the level of recent years. There are three sections : (1) pictorial, (2) colour transparencies, and (3) scientific and technical exhibits and lantern-slides. There is, in addition, an American invitation collection in one of the rooms. Section I. contains over two hundred photographs, and it is noticeable that bromides and platinotypes are the favourite processes this year. Section II., devoted to scientific and technical photographs, is the largest, and appears to grow in popularity year by year. It includes radiographs, astronomical photographs, photomicrographs, photographs of natural-history subjects, and new processes. Among the last-named is an ingenious method of protecting bank-notes from forgery. One of the colours used in printing a design can only be seen on looking through a special colour-screen, through which the banker would examine the notes. The photographs taken in England from aeroplanes are also of present interest. The coloured transparencies are mostly autochromes, and reach the high-water mark for such work. The trade exhibits are confined to photographs showing the kind of work that can be done by the use of particular lenses and on various plates and paper. The exhibitors include Ilford, Ltd.; C. P. Goerz Optical Works, Ltd.; the Paget Prize Plate Co., Ltd.; the Platinotype Co.; and Wratten & Wainwright. On three nights a week during the exhibition a programme of lantern-lectures is to be given.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Poisoning Cases.

Three deaths following the administration of poisons have come to our notice during the week. The lethal agents used were laudanum (two cases) and oxalic acid (one case). In all three cases the poison was taken with suicidal intent.

The late Mrs. Morgan Richards.

The "Isle of Wight Advertiser," August 22, contained a very full account of the late Mrs. John Morgan Richards, whose death at Steephill Castle, Ventnor, in her sixty-ninth year, was reported in the *C. & D.*, August 15, p. 41. Our contemporary says :

"Mrs. Morgan Richards was one of the most popular ladies in the island, and she was in constant request for the opening of bazaars, sales of work, flower-shows, and the like. Her generosity was proverbial, and any case deserving of help was never presented to her in vain. She had, indeed, a heart of gold, and was never so happy as when she was helping somebody or doing something to further some deserving cause. She was beloved by everybody: people of all classes, from members of the Royal Family to errand-boys in the local shops, had a warm affection for her. She had a genial smile and a cheery word for everybody, and her popularity was thoroughly well deserved."

The funeral took place at Ventnor Cemetery on Saturday, August 15, a service being conducted in the cemetery chapel by the Rev. H. E. Heywood, minister of the Congregational Church, of which Mrs. Richards was an honoured member. The family mourners were Mr. John Morgan Richards, Mr. John Morgan Richards, jun., Mr. and Mrs. Nelson Richards, Mrs. George Prendergast, Master Jeffrey Prendergast, Mr. John Churchill Craigie, the Masters Arnold and Jim Richards, Mrs. Anna R. Cummings, Mr. William Porter Ward, Mr. Adolph Secretan, Mr. and Mrs. T. R. Saunders, and Miss Trenaman.

Chemists' Dental Society.

The meeting which was arranged to be held at the projected Chemists' Exhibition in Manchester was postponed when that function was abandoned. The meeting was to have been held next month at the Dental Exhibition, but the latter has now been put off. It has been decided in consequence to postpone the meeting of the Chemists' Dental Society for the present.

Birmingham.

All the local pharmacists exhibit notices to the effect that they do not propose to increase their prices until they are obliged to do so.

A great increase in the number of establishments dealing in surgical appliances has been observed in Birmingham within the last few years.

It is stated that large numbers of would-be recruits have been rejected by local Army medical officers, owing to bad teeth. The cause is said to be the presence of acid fumes in the air, owing to the large amount of acid used in the Birmingham factories.

Sheffield.

Messrs. Eardleys, pharmaceutical chemists, Glossop Road, are to do the dispensing for the men of the Territorial units at Collegiate Crescent.

It seems incredible, after all that has been written of increased prices of drugs and chemicals, to find a local panel chemist charging 3*d.* per oz. for bromide of potassium.

Local medical men, while not always able to avoid giving a prescription, have adopted some very simple and inexpensive methods of treatment. This is evident in private, Insurance, and institutional work.

Departmental stores which have a drug department are making special sale shows of dressings, etc., likely to be purchased by workers on behalf of the wounded. The following are examples of the fineness to which their prices are cut : Baking-powder, 5*d.* per lb., 3 lb. 1*s.* 2*d.*; bicarbonate of soda, 2*d.* per lb.; boric-acid powder, 4½*d.* per lb.; tissued wool, 10½*d.* per lb.; Gamgee tissue, 1*s.* 6*d.* per lb.

Society of Pharmacy and Drug-store Proprietors.

The third annual meeting of this Society will be held at the Mitre Hotel, Manchester, on September 2, at 2.30 P.M., when the report for the year ended March 31, 1914, will be presented, and the meeting will be addressed by Mr. J. O'Grady, M.P. The abridged report which has been issued states that the work of the year has been satisfactory, and although the Parliamentary work has not been so extensive as last year, it has been important, and increased support of members of the House of Commons has been secured. The Society's accounts show a credit balance of 162*l.* 7*s.* 8*d.*

Carrying on as Usual.

A meeting of business men interested in advertising was held in the Cannon Street Hotel, London, on August 25. Mr. H. G. Selfridge presided, and explained that the object of the meeting was to devise a scheme to keep the business of the country in its natural channels and in its normal state. The best means to accomplish that was, he said, for manufacturers and producers to maintain their advertising at, or even above, normal volume. The withdrawal of advertising at the moment he likened to drawing out the fires from a battleship about to go into action. Mr. Selfridge was followed by Mr. Thomas Russell, the originator of the meeting, and he pointed out that it is a national obligation on those at home to keep the business of the country going as usual. The confidence of the buying public, shaken recently, would be restored by the resumption of advertising as before the war. To fly into a needless panic because the nation is in trouble is to give trade, already suffering, a great setback. British currency is on a sound basis and there is no need for traders and the public to hoard their money. British ships are carrying goods in and out much in the same way as in times of peace. German competition has been removed and the present is a grand opportunity for British manufacturers to "get their own back"—and more. He (Mr. Russell) was of opinion that one of the greatest determining factors in the war would be the gradual strangulation of German trade. Good advertising now is the best means of assisting to end the war by capturing the trade markets of Germany and Austria. Mr. Russell moved a resolution urging the Press to continue its efforts to restore the confidence of the public in the stability of trade. This was seconded by Mr. C. F. Higham in a vigorous speech. After a further resolution had been passed regarding the necessity for manufacturers of branded goods to continue advertising and thus obviate substitution, it was decided that anyone desiring information regarding the opening-up of new markets should write direct to Mr. Russell.

Sale of Food and Drugs Acts.

In Hackney twelve samples of drugs were analysed during 1913 and found to be genuine.

The Marylebone public analyst examined twenty-nine samples of drugs during the past year. All were genuine.

Nineteen samples of drugs were examined by the Southwark public analyst during 1913. All were found to be genuine.

Of eighty-two samples of drugs submitted to the Westminster public analyst during the past year, one sample (olive oil) was found to be unsatisfactory.

During 1913 fifty-nine samples of drugs were purchased for analysis in Hull under the above Acts. Of these, one sample of solution of perchloride of mercury and one of calcined magnesia were found to be unsatisfactory.

In his report for the second quarter of 1914 the Islington medical officer of health reports that ten samples of lime-water and five of carbolic ointment were taken for analysis during the period. All the samples of carbolic ointment were returned as adulterated

The public analyst of Portsmouth reports that eighty samples of drugs were submitted to him for analysis during the year 1913-14. With two exceptions all were

satisfactory. The articles returned as "adulterated" were liquid extract of cinchona and ammoniated tincture of quinine.

The Wandsworth medical officer of health, in his annual report, states that seventy-seven samples of drugs were purchased for analysis in the borough during the past year. With five exceptions, all were genuine. The articles returned as adulterated were crushed linseed, tincture of iodine, saffron (two samples), and Epsom salt.

Guardians' Doings.

At a meeting of the Rochford (Essex) Guardians on August 15, the medical officer (Dr. Lewis) said there was a difficulty in obtaining drug-supplies. They would have to use drugs for the very serious cases only, so as to keep the small stock they had for the winter.

Camberwell Guardians have decided that supplies must be sent in by the contractors at the prices quoted in their contracts, but the Guardians will consider any extra payment on account of the enhanced prices due to the war. The Board have referred the matter of supplies of drugs, etc., to a committee for consideration.

Nantwich Guardians have been informed by Mr. W. Grice, chemist and druggist, High Street, Nantwich, that it will be difficult for him to fulfil his contract for surgical dressings owing to wholesale prices having increased 20 per cent. The Guardians, on the suggestion of the Clerk, referred the matter to the Finance Committee.

At a meeting of Weymouth Guardians on August 18, a letter was read from Mr. M. T. Evans, chemist and druggist, Westham, asking to be released from his contract to supply hospital dressings, owing to the increase in prices on account of the war. As it was understood that the Local Government Board are to issue circulars dealing with the matter, decision was deferred.

At a recent meeting of Tadcaster Guardians and Rural District Council, a communication was read from Mr. J. H. Hull, chemist and druggist, Tadcaster, asking if any allowance could be made to him on account of the increased cost of drugs, etc., which he was under contract to supply. The meeting sympathised with Mr. Hull, but decided that they could make no change in the contract.

A special meeting of Southwark Guardians was held on August 21 to determine what action should be taken regarding the present contracts for supplies in view of the war. Letters were read from contractors stating that they were unable to continue supplying goods at the prices quoted in their contracts, among them being communications from the contractors for drugs, surgical appliances and dressings, etc. It was decided to refer these to a special meeting of the Finance Committee, and the Clerk was instructed to write to the Local Government Board asking for their advice on the matter. In reply to a question, the Clerk said that no contract was binding unless it was fair and equitable, and it could not be held in a court of law that these contracts were either fair or equitable in view of the altered circumstances.

From Various Courts.

A youth, named Frederick H. Bowler, was bound over for a year at Leicester on a charge of attempting to obtain a camera, value 2*l*., from Butler's Pharmacy by means of a trick.

At Abertillery (Mon.) Police-court on August 19, William James was fined 1*l*. for stealing from the shop of Mr. T. H. Prichard, chemist and druggist, Abertillery, a hair-brush, shampoo-powder, and other articles, to the value of 7*s*. 6*d*.

Frederick Smee (19), Leyton, was remanded at Stratford Police-court on August 21 on a charge of stealing a photographic lens valued at 31*l*., the property of Messrs. G. Houghton & Sons, Ltd., Ensign Works, Walthamstow. Accused was in the employ of the firm for about three weeks, and the lens was missed at the end of July. The article had been sold by accused to a firm of photographic dealers for 3*l*. 5*s*.

Directions for Use from a prescription dispensed by a subscriber a few days ago: "One teaspoon to three of hot water. Snuff up nose and spit out, then gargle with the same."

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. D. W. Elliott, Ph.C., has been appointed to represent the Belfast Board of Guardians on the Windsor Ward Old-Age Pension Sub-Committee.

Mr. John Baxter, chemist, Ballymoney, has been selected to act as a member of the co. Antrim Committee in connection with the Prince of Wales's National Relief Fund.

Ulster Drug Association.

A further meeting of the Ulster Drug-trade Association was held on August 20 in Belfast, Mr. James Tate (President) in the chair. The meeting considered the question of the supply of articles which have been affected by the war, including Apenta water and Hunyadi water. It was decided to advance these slightly in price.

The late Mr. McMullan.

The funeral of Mr. Daniel H. McMullan, Ulster representative of Messrs. Boileau & Boyd, Dublin, took place on August 18 from Portrush, where he died on a holiday. Mr. Joseph McMullan, R.D., Coleraine, and Mr. Robert McMullan (brothers) were the chief mourners. Baxters, Ltd., chemists, Ballymoney, were represented by Messrs. John Baxter, R. Holmes, and W. J. Beatty (directors), W. Meek, Ph.C., and Mearns. Sir Wm. Baxter, D.L., ex-President of the Pharmaceutical Society of Ireland, Mr. R. F. McCartney, Ph.C., Mr. Gilmore, Coleraine, and Mr. W. J. Rankin, jun., Belfast, were also present. The interment took place in Coleraine.

Drug-supplies.

Legal opinion has been taken by various Boards of Guardians in Ireland, and in the main it agrees that contractors are bound to fulfil their contracts at contract prices without any increase. It is generally expected that the Government will sanction an arrangement to give the contractors something above the contract prices in cases where there has been a heavy rise.

At a meeting of the Richmond Lunatic Asylum Joint Committee, Dublin, a discussion took place in reference to food and drug supplies during the war. The Resident Medical Superintendent (Dr. Donelan) said that the difficulties in obtaining drugs opened up the prospect of reviving the industry of their manufacture at home. The main difficulty which the drug-manufacturer has to contend with is the hampering regulation of the Excise authorities regarding the use of alcohol for industrial purposes.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. John Buchanan, chemist and druggist, Leven, is claiming 100*l*. from the Leven Town Council for damage done to his shop-window in the recent riot (*C. & D.*, August 22, p. 40).

Hypo is being sold in Edinburgh at from 4*d*. to 6*d*. per lb. Some photographic chemists have ceased to make up hydroquinone developer for retailing until prices become lower. Glycerin 3*d*. per oz., olive and castor oils 1½*d*. to 2*d*. per oz., and oil of almonds 4*d*. per oz., are some of the other changes in price.

Aberdeen and the North.

Miss Jessie G. Gilchrist, chemist and druggist, Invergordon, has obtained the contract for the supply of dressings, etc., to the Naval Hospital at Cromarty.

The principal contractor for Government hospital supplies in the North of Scotland is stated to be Mr. R. Whitelaw, surgical-instrument maker, Rosemount Viaduct, Aberdeen.

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Glasgow and the West.

Messrs. Black and Crombie beat Messrs. McGillivray and Rule in the golf foursomes competition by 4 and 3. Mr. W. Galbraith has qualified for the monthly medal.

Mr. R. H. Gordon, chemist and druggist, 488 Duke Street, has disposed of his business at that address to Mr. J. C. McAlister, chemist and druggist, late manager of Messrs. Spite's Duke Street branch.

At a meeting of the Trade Committee of the Glasgow and West of Scotland Chemists' Association it was decided that the 25 per cent. increase on retail prices should not be continued, and that infants' foods should be sold at the usual prices. The following supplementary list of additions and alterations was drawn up (*C. & D.*, August 22, p. 40):

Acid. carbolic. liq., per oz. 3*d.*
Acid. pyrogallic., per oz. 1*s.* 6*d.*
Aspirin tablets, per bot. of 25 1*s.*
Bismuth. subnit., per oz. 1*s.*, per dr. 2*d.*
Cera alb., per oz. 4*d.*
Cera flav., per oz. 3*d.*
Hexamethylenetetramine, per dr. 3*d.*
Ichthyol ammon., per dr. 6*d.*
Magnes. cit. efferves., per oz. 2*d.*
Methyl salicyl., per oz. 6*d.*
Phenacetin, per dr. 4*d.*
Sal Rochelle, per oz. 2*d.*
Sod. citrat., per oz. 9*d.*, per dr. 2*d.*
Sodii hyposulph., per lb. 3*d.*
Gamgee, per lb. 1*s.* 9*d.*, per ½ lb. 11*d.*, per ¼ lb. 6*d.*

Maxwell Dixon, a fifteen-year-old chemist's apprentice of Girvan, performed a plucky action on August 23 in rescuing a boy who had got into difficulties while bathing in the River Girvan. Mr. Dixon entered the water fully dressed and succeeded in bringing the boy ashore in an exhausted condition. A number of previous life-saving exploits stand to Mr. Dixon's credit.

NETHERLANDS NOTES.

Prohibition of Exports.—In the Royal Decree prohibiting the export of certain drugs and chemicals, and to which reference has been made in The Chemist and Druggist, the Government reserves to itself the right to give exemption from the decree in cases where it may appear necessary.

War Prices.—Messrs. B. Meindersma, wholesale druggists, Sneek, wish their friends to dissociate them from the movement of raising prices which led to the Government action referred to in the *C. & D.*, August 15, p. 35. The firm inform us that on August 3 they sent out a circular to their customers stating that they would not raise prices so long as their present stock lasts.

Demand and Supply.—In order to prevent as much as possible the stoppage of industry from lack of raw material, a Bureau for commercial information has been opened at 16 Oudebrugsteeg, Amsterdam. In demand are hydrochloric acid, adeps lanæ, ammonia for ice-machines, nitric acid, benzene, benzol, carbolic acid, naphtha, creosote, carbon bisulphide, acetic acid, starch, borax, boric acid, and caustic soda. Some of these wants have been supplied from sources where there is abundance.

The Supply of Drugs.—As in other countries, the failure of the supply of certain drugs and chemicals has made itself felt in enhanced prices. It also brings home the dependence of the medical profession upon fine chemicals produced in Germany, the exports of which have now ceased. There is an abundance of some medicaments produced in Holland, and a partial revocation of the decree prohibiting exportation is granted where plentiful supply is indicated. The country is nevertheless faced with the problem of replacing foreign-made chemicals, which even the highest prices cannot replace. In order to provide Holland with these medicaments measures are being taken to promote the manufacture in this country. An industry based on war prices would, of course, be unable to compete with similar undertakings under normal conditions. It is, however, advisable to become more independent of the German chemical industry, and the importation of chemical products from other countries would be looked upon with favour, but at the same time the development of national industries could be fostered. It is not impossible that the supply of medicines to the Army being provided for the German Government may revoke the prohibition to export certain chemicals, and thus neutral countries will obtain supplies.

Patent-medicine Report.

The Report of the Select Committee on Patent Medicines, which was presented to the House of Commons on August 4, and summarised in the *C. & D.* of August 8, is now published, and may be purchased for 3*d.*, either directly or through any bookseller, from Wyman & Sons, Ltd., 29 Bream's Buildings, Fetter Lane, E.C., and 28 Abingdon Street, S.W., and 54 St. Mary Street, Cardiff; or H.M. Stationery Office (Scottish Branch), 23 Forth Street, Edinburgh; or E. Ponsonby, Ltd., 116 Grafton Street, Dublin; or from the agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and abroad of T. Fisher Unwin, London, W.C. The Report extends to twenty-eight pages (apart from the evidence, which is not yet available). First it deals with the law in foreign countries—viz., Germany, Austria, Hungary, France, Italy, and the United States. The law in British Dominions (Australia and Canada) is next epitomised, and this is followed by the law in the United Kingdom. Under Acts of Parliament the Report deals briefly with the Stamp Acts, the Pharmacy Acts, the Merchandise Marks Acts, the Indecent Advertisements Act, and the Larceny Act. Departments of State and statutory bodies (including the Pharmaceutical Society) are then referred to, and this section concludes as follows:

The foregoing summary, if left without comment, might be thought to indicate an adequate body of law and administrative authority to deal with the subject of our inquiry. This is far from being the case. So far as the prevention of fraud is concerned, the before-mentioned statutes or powers are of little value. To show this in detail in each instance would be to overload our Report with details. We confine ourselves, therefore, to a brief indication of the facts or the authority upon which we base the above opinion.

There is no Department of State officially concerned with the sale and advertisement of these articles. The witness from the Home Office said to us: "This is one of many subjects which no Department of State claims as its own." He further said: "The Home Secretary, as regards patent and proprietary medicines as such, has no powers or duties." And he added: "Proceedings for fraud against proprietors or vendors of proprietary medicines on the ground that they cannot cure the diseases they mention are practically unknown." As regards the Privy Council in this connection, it is merely a clerical vehicle for passing on any question to some other department, possessing itself neither knowledge nor adequate staff to deal with it. And even its function of securing Orders in Council is exercised with such laxity that whereas the Pharmaceutical Society passed resolutions in 1882, 1886, 1893 (moved by the Local Government Board), and 1899, requesting that various poisons, including carbolic acid, which was responsible for 200 fatalities a year, should be added to the schedule of poisons, it was not until 1900 that this recommendation was carried out in part. It thus took the Privy Council eighteen years to add carbolic acid to the schedule of poisons. The President of the Pharmaceutical Society not unnaturally expressed to us the opinion that "a change in the law, or, at any rate, a great change of procedure, is urgently necessary."

The Merchandise Marks Acts give no specific authority to local authorities to prosecute for a false trade description, and no private individual has yet seen fit to do so, in respect of a proprietary medicine. Moreover, an action would only lie in the case of a medicine not being what it was alleged to be; for instance, a drug not quinine described as being quinine. Further, it does not apply to fraudulent advertisements, except in so far as such advertisements accompany the goods.

In the Sale of Food and Drugs Act, Section 6, Subsection (2) specifically exempts proprietary and patent medicines from its operations. Even if this exemption were abolished, this section of the Act would still be practically useless, as a purchaser asking for X's pills and getting X's pills would be getting an article "of the nature, substance, and quality of the article demanded."

The Indecent Advertisements Act does not include advertisements in newspapers.

In the next section entitled "Legal and Official Anomalies and Curiosities," the anomalies and curiosities of the law and official practice are stated to be numerous

and remarkable. Thus any number of different names may be secured as trade-marks for the same drug—"Soamin," "Aspirin," "Saletin," "Salacetin," "Xaxa," "Antikamnia," "Ammonol," "Antitoxine," "Phenalgin," "Aperione," "Laxans," "Laxatin," "Laxatol," "Laxatoline," "Laxiconfect," "Laxoin," "Laxophen," "Paraphthalein," "Phenolax," "Proliclin," "Purgen," "Purgo," "Purgolade," "Purgella," "Purgylum," or "Aminoform," "Cystamin," "Metramine," "Urisol," "Uritone," "Xametrin," and "Vesalvine" are given as examples. Then Wincarnis is mentioned, and body-names. Prosecutions for fraud are next considered, and after statistics of the trade in proprietary remedies the following passage occurs:

The Press and Secret Remedies.

It may be convenient to speak at this point of the relation of the newspaper and periodical Press to secret remedies. As so large a sum as 2,000,000*l.* or more is spent annually in advertisements of these remedies in one form or another of advertising, the trade is naturally of great importance to newspaper proprietors. In the case of most newspapers these advertisements constitute one of the most considerable sources of income, while a number of small provincial newspapers could probably hardly exist at all without secret-remedy advertisements. All periodicals exercise some censorship over these advertisements. With a few, mostly weekly sporting low-class prints, fear of prosecution alone dictates a certain caution. Other papers draw a line of varying strictness. One newspaper only, the "Spectator," we were informed, wholly excludes these advertisements, but a few daily papers also practically close their columns to them. The respectable Press, speaking generally, refuses all advertisements having any suggestion of impropriety. Some papers of the so-called "religious Press," we are told, show a wider hospitality to secret-remedy advertisements, and many of an objectionable character have been found in its columns. It is also lamentably true that the cheap so-called "home" weeklies, intended for the reading of girls and young women, contain advertisements of a grossly improper nature. Many improper advertisements from weeklies, sporting prints, "religious" and "home" papers were exhibited to us—including nineteen advertisements of drugs obviously intended to be used as abortifacients in one provincial Sunday paper—but none of this character from high-class dailies or weeklies. We are convinced that the proprietors of the better class of newspapers and secret remedies alike would welcome a drastic suppression of suggestive or improper advertisements. The foregoing observations do not refer to the advertisements of swindlers like Macaura, the "eye quacks," the "deaf quacks," the cancer-curers, the consumption-curers, the electric-belt makers, the curers of rupture without operation, or "fakirs" generally. As regards these classes, most newspaper proprietors do not regard it as incumbent upon them to test the good faith of secret-remedy advertisers, any more than of advertisers of other goods, though a few of the leading papers exercise a very severe censorship upon advertisements of this kind also. We must point out further in this connection that the large sums received for the advertisement of secret remedies lead newspapers, either from discretion or under compulsion, to exclude from their columns criticism or discussion of secret remedies. When the British Medical Association, for example, issued their volume entitled "Secret Remedies," containing analyses, costs, etc., of a large number of proprietary medicines, not only was the volume not noticed editorially by most papers, but even an advertisement of it was declined by many journals, some of them of the highest class. A trial in Edinburgh, in the course of which the Judge described the business of the proprietors of "Bile Beans" as "based on unblushing falsehood for the purpose of defrauding the public," was, we were informed, with few exceptions, not reported in the Press, and the remedy still has a considerable sale. The extent to which criticism of secret medicines is excluded from the Press may probably be judged by anyone who will take the trouble to see how much attention is bestowed by the newspapers upon your Committee's Report.

With regard to the advertisements in the medical Press, we consider that adequate censorship has not in all cases been exercised, as indeed was admitted by Dr. Cox, the representative of the British Medical Association, and instances to this effect will be found in the evidence we received.

The Report next deals with the analysis of secret remedies, stating that there are distinct limits to analysis, and then describes the different classes of proprietary remedies—viz.:

Class A.—Non-Secret Remedies.

Group 1.—Proprietary preparations.

Group 2.—Remedies owing their value to skilful combination.

Group 3.—Non-secret drugs with secret excipients.

Class B.—Secret Remedies.

Group 1.—Simple household remedies.

Group 2.—Dangerous remedies, and drugs for improper purposes ("acetanilide is possibly an example").

Group 3.—Fraudulent remedies (abortefacients, alleged cures for cancer, consumption, diabetes, paralysis, locomotor ataxy, Bright's disease, lupus, fits, epilepsy, rupture (without operation or appliance), deafness, disease of the eye, syphilis, etc., together with electric belts, apparatus for supplying oxygen to the system (other than by inspiration), "ionised" waters, and the like).

Group 4.—Remedies making grossly exaggerated claims. (As an example of the profits made by the sale of this class of remedies, George Taylor Fulford, the proprietor of "Dr Williams' Pink Pills for Pale People," left a fortune of 1,111,000*l.*)

Medicated wines are then taken up: Wincarnis, Hall's wine, Bovril wine, Lemco wine, Bendle's wine, Glendinning's wine, Ambrecht's (*sic*) coca-wine, Spiers & Pond's wine, Savar's wine, Coleman's coca-wine, Vin Mariani, St. Raphael Tonic wine, Carrick's (*sic*) Liquid Peptonoids, Panopeptone, Armour's Nutritive Elixir of Peptone, Carnabyn, Junora, Vibrona, and Lydia E. Pinkham's Vegetable Compound are mentioned with alcoholic strengths.

The Report proceeds to give examples of secret remedies, highly critical paragraphs being devoted to "Mother Seigel's Syrup," "Daisy" Powders, "Fenning's Fever Curer," "Antipon," "Vitadatio," "Veno's Lightning Cough Cure," "Mer-syren," "Phosferine," "Steedman's Soothing Powders," "Matrozone," "Burgess's Lion Ointment," "Dearborn, Ltd.," and "No-Germo."

Examples of fraudulent claims are quoted from patent-medicine advertisements, and other sections are devoted to invented names of drugs, changes in name or composition of remedies, cure of symptoms, "cures" for fits, the trade in abortifacients, "cures" for consumption, fictitious names, practices of secret-remedy vendors, the medical profession and secret remedies, the patent-medicine stamp as an advertisement, fraudulent appliances, requirements of Australian law, exhibition of formula, and suggested amendments of existing law. It all forms interesting reading, and is dead against secret-remedy manufacturers. The whole matter is summed up in findings and recommendations, which we print in full.

Findings.

After careful consideration of the evidence laid before them your Committee find:

(1) That there is a large and increasing sale in this country of patent and proprietary remedies and appliances and of medicated wines.

(2) That these remedies are of widely differing characters, comprising (*a*) genuine scientific preparations, (*b*) unobjectionable remedies for simple ailments, and (*c*) many secret remedies making grossly exaggerated claims of efficacy, causing injury by leading sick persons to delay in securing medical treatment, containing in disguise large proportions of alcohol, sold for improper purposes, professing to cure diseases incurable by medication, or essentially and deliberately fraudulent.

(3) That this last-mentioned class (*c*) of remedies contains none which spring from therapeutical or medical knowledge, but that they are put upon the market by ignorant persons, and in many cases by cunning swindlers, who exploit for their own profit the apparently invincible credulity of the public.

(4) That this constitutes a grave and widespread public evil.

(5) That in British Dominions and foreign countries severe legal restrictions exist, and that there is a tendency still further to strengthen the law against these articles.

(6) That no Department of State and no public officer is charged with the duty of controlling the sale and advertisement of proprietary remedies in this country; that the Home Office and the Local Government Board are virtually powerless in this respect; that the Privy Council

Office, though supposed to be specially concerned with the sale of drugs, has no initiative in the matter, and, in fact, it fulfils no useful function in this connection.

(7) That the existing law is chaotic and has proved inoperative, and that successful prosecution for fraud in the advertisement and sale of secret remedies is fraught with the greatest difficulty, though the Public Prosecutor has perhaps not sufficiently tested the powers of the existing law in respect to such cases.

(8) That consequently the traffic in secret remedies, except as regards scheduled poisons and the grosser forms of impropriety, is practically uncontrolled in this country.

(9) That this is an intolerable state of things, and that new legislation to deal with it, rather than merely the amendment of existing laws, is urgently needed in the public interest.

(10) That grave injury is caused to the public by the existing large sale of medicated wines.

(11) And that while, for reasons already given, it is not desirable to require the exhibition of formula of every secret remedy, nevertheless it is improper that under the protection of the law enormous quantities of alleged remedies should be sold the composition of which is unknown to any person except the manufacturers of them; and that therefore the formulæ of all secret remedies should be required to be communicated to a competent officer appointed under the authority of a Minister of State, but that such formulæ should not be divulged to any other person except as hereinafter recommended.

Recommendations.

Your Committee therefore recommend:

(1) That the administration of the law governing the advertisement and sale of patent, secret, and proprietary medicines and appliances be co-ordinated and combined under the authority of one Department of State.

(2) That this administration be part of the functions of the Ministry of Public Health when such a Department is created, and that in the meanwhile it be undertaken by the Local Government Board.

(3) That a competent officer be appointed to this Department, with the duty of advising the Minister at the head of the Department concerned regarding the enforcement of the law in respect of these remedies.

(5) That there be established at the Department concerned a register of manufacturers, proprietors, and importers of patent, secret, and proprietary remedies, and that every such person be required to apply for a certificate of registration and to furnish (*a*) the principal address of the responsible manufacturer or representative in this country, and (*b*) a list of the medicine or medicines proposed to be made or imported.

(6) That an exact and complete statement of the ingredients and the proportions of the same of every patent, secret, and proprietary remedy; of the contents other than wine, and the alcoholic strength of every medicated wine, and a full statement of the therapeutic claims made or to be made; and a specimen of every appliance for the cure of ailments other than recognised surgical appliances, be furnished to this Department, such information not to be disclosed except as hereinafter recommended, the Department to control such statement, at their discretion, by analyses made confidentially by the Government Chemist.

(7) That a special Court or Commission be constituted with power to permit or to prohibit in the public interest, or on the ground of non-compliance with the law, the sale and advertisement of any patent, secret, or proprietary remedy or appliance, and that the Commission appointed for the purpose be a judicial authority, such as a Metropolitan Police Magistrate sitting with two assessors, one appointed by the Department, and the other by some such body as the London Chamber of Commerce.

(8) That the President of the Local Government Board (or Minister of Health) have power to institute the necessary proceedings to enforce compliance with the law, the sale and advertisement of any patent, secret, or proprietary remedy or appliance.

(9) That a registration number be assigned to every remedy permitted to be sold, and that every bottle or package of it be required to bear the imprint "R.N. . ." (with the number), and that no other words referring to the registration be permitted.

(10) That in the case of a remedy the sale of which is prohibited, the proprietor or manufacturer be entitled to appeal to the High Court against the prohibition.

(11) That the Department be empowered to require the name and proportion of any poisonous or potent drug forming an ingredient of any remedy to be exhibited upon the label.

(12) That inspectors be placed at the disposal of the Department to examine advertisements and observe the sale of proprietary remedies and appliances.

(13) That an annual fee be payable in respect of every registration number issued.

Your Committee make the following recommendations regarding the amendment of existing laws:

(1) That the Stamp Acts be consolidated and amended to remove the numerous existing anomalies and unreasonable exceptions. In this connection pure drugs vended entire under a fancy name should no longer be exempt from duty; the distinction between the name of an ailment and the name of an organ the seat of that ailment should be abandoned; and the exemption of medicines generating carbonic-acid gas should be omitted. Further, any reference in advertising matter to the Government stamp should be prohibited, and no name of a proprietor or firm should be printed upon the stamp.

(2) That the Indecent Advertisements Act be amended on the lines of Lord Braye's Bill.

Your Committee further recommend the following legislative enactments:

(1) That every medicated wine, and every proprietary remedy containing more alcohol than that required for pharmacological purposes, be required to state upon the label the proportion of alcohol contained in it.

(2) That the advertisement and sale (except the sale by a doctor's order) of medicines purporting to cure the following diseases be prohibited:

Cancer.	Fits.
Consumption.	Epilepsy.
Lupus.	Locomotor ataxy.
Deafness.	Bright's disease.
Diabetes.	Rupture (without operation or appliance).
Paralysis.	

(3) That all advertisements of remedies for diseases arising from sexual intercourse or referring to sexual weakness be prohibited.

(4) That all advertisements likely to suggest that a medicine is an abortefacient be prohibited.

(5) That it be a breach of the law to change the composition of a remedy without informing the Department of the proposed change.

(6) That fancy names for recognised drugs be subject to regulation.

(7) That the period of validity of a name used as a trade-mark for a drug be limited, as in the case of patents and copyrights.

(8) That it be a breach of the law to give a false trade description of any remedy, and that the following be a definition of a false trade description: "A statement, design, or device regarding any article or preparation, or the drugs or ingredients or substances contained therein, or the curative or therapeutic effect thereof, which is false or misleading in any particular." And that the onus of proof that he had reasonable ground for belief in the truth of any statement by him regarding a remedy be placed upon the manufacturer or proprietor of such remedy.

(9) That it be a breach of the law—

(*a*) To enclose with one remedy printed matter recommending another remedy.

(*b*) To invite sufferers from any ailment to correspond with the vendor of a remedy.

(*c*) To make use of the name of a fictitious person in connection with a remedy. (But it should be within the power of the Department to permit the exemption of an old-established remedy from this provision.)

(*d*) To make use of fictitious testimonials.

(*e*) To publish a recommendation of a secret remedy by a medical practitioner unless his or her full name, qualifications, and address be given.

(*f*) To promise to return money paid if a cure is not effected.

In conclusion, your Committee believe that departmental and legislative action as outlined above will not inflict injustice upon any patent or proprietary medicine or appliance; that it will, alike by its operative and its deterrent effect, afford the public efficient and urgently needed protection against injury and fraud; and that no measures of a smaller scope will secure this result.

New Bridge Street, E.C., was, on August 25, the scene of a collision between a milk-cart and the van of a firm of chemical-manufacturers which was laden with carboys of nitric acid. The stoppers of the carboys were loosened by the impact and the carboys were thrown against the side of the van, with the result that some of the acid flowed out on to the wood paving, which was badly burnt. No further damage was done.

LEGAL REPORTS.

TRADE LAW.

Extending the Moratorium.—In the City of London Court on August 25, Judge Atherley-Jones, K.C., said, although the moratorium applied only to debts over 5*l.*, he would adjourn the hearing of all the judgment-summonses *sine die* where they were under that amount as well, as he could not make committal orders in these times. He was not pursuing an eccentric course, but one generally adopted.

Shops Act, 1912.—At the Dolgelly (North Wales) Petty Sessions last week, Mr. Humphrey Morris, chemist and druggist, was summoned, under Section 4, for not closing his premises at 1 P.M. on the weekly half-holiday. Defendant said he was justified in opening the shop on the day in question, as he closed the whole day Bank Holiday. Being on the dispensing panel, he frequently received prescriptions from doctors on Wednesdays after 1 P.M. The summons was dismissed.

Status of Foreign-owned Companies.—In appointing a receiver and manager of a pianoforte company with a German name, Mr. Justice Shearman, in the Vacation Court on August 26, said the receiver must undertake not to remit any money or goods to a hostile country. He did not think a business which is being owned beneficially by foreign enemies can be carried on at all in this country without the licence of the Government. He was informed that the Government will not give the authority unless they are satisfied that no money will be remitted to an alien enemy. It must all remain in this country.

Seidlitz Powders.—At Portsmouth on August 25, Douglas Milton King, 21 and 23 Cottage Grove, Southsea, carrying on business there as the Lilly Powder Co., Portsmouth, was summoned, under Section 27 of the Sale of Food and Drugs Act, 1875, for giving in respect of two seidlitz powders a false warranty in writing to the effect that the said seidlitz powders were made in accordance with the British Pharmacopœia, whereas they contained acetanilide, a substance entirely foreign to genuine seidlitz powders. For the convenience of the defendant and his counsel the case was adjourned for a fortnight.

Order for Cork Socks.—In the City of London Court, before Mr. Assistant-Registrar Tattershall on August 21, a claim was made by Messrs. J. Morgan Davis & Sons, wholesale chemists, 278 Bishopsgate, against Mr. E. Foglis, bootmaker, 136 Hornsey Road, Holloway, for 19*s.* 9*d.*, being balance of account rendered for goods sold and delivered. The plaintiffs' representative said that the amount sued for was in respect of cork socks. The order was taken by their traveller on April 1, and the goods supplied to the defendant on April 4. Two weeks ago their traveller left them. The defendant said that when the plaintiffs' traveller called upon him he gave an order for loofah socks. A paper was put before him to sign, but he was unable to read the document. The socks that were sent in were of no use, and he had refused to take them in. They were now at the carrier's. The Assistant-Registrar said it was impossible for the plaintiffs to go on with their case without their traveller being present. If an adjournment was granted, the defendant's costs would have to be paid. The plaintiffs elected to abandon the case, and were ordered to pay the defendant 5*s.* expenses.

Crookes's Collosols.—Mr. Verey, one of the High Court's Official Referees, has given his reserved judgment, which was formally entered on Thursday, August 20, in the action of Stroud *v.* Govett, the hearing of which was reported in the *C. & D.*, July 18, p. 39, and August 1, p. 44. The action was one for damages against the defendant for alleged failure to float a company to work an invention by Mr. Henry Crookes for the production of colloidal metals under the name "Collosols." Mr. Verey, in his judgment, said that the agreement between the plaintiff and the defendant was contained in two letters, and it had been decided that those letters constituted a valid contract. There had been a great conflict of evidence as to whether the plaintiff, on the defendant repudiating the agreement, had or had not then sufficient time to float a company during the year 1913, when the market conditions were favourable, and also as to whether the value of the plaintiff's patent was decreased, and, if so, to what extent, by the defendant's breach. On those points he came to the conclusion that by the defendant's breach the plaintiff was delayed in floating a company, and also that the value of his patent was decreased. On the whole of the evidence before him he found that the plaintiff was entitled to recover from the defendant damages in respect of his breach of agreement, and he assessed such damages at 5,000*l.*

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

Yorkshire and Cambrian Medicine Co., Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of veterinary medicines, feeding-meals, foods, condiments, oils, disinfectants, etc. The subscribers are J. A. Dent, veterinary specialist, and P. F. Barras, Grimsby. R.O., 56 High Street, Acton, W.

Auto Chemists, Ltd. (P.C.).—Capital 100*l.*, in 1*l.* shares. Objects: To carry on the business indicated by the title, and to adopt an agreement with Hans Hartman. The first directors are A. F. Cain, J. Ockleshaw, Dr. J. M. Rainey, J. W. Surbrug, and H. Hartman (all permanent). Qualification, 1*l.* Remuneration, as fixed by the company. R.O., 42 Cranbourne Street, W.C.

Healtheries, Ltd. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in foods and medicines, chemists, manufacturers of surgical appliances and confectionery, dealers in fruits and groceries, etc.; to acquire the business carried on by P. H. Longson at 55 Commercial Road, Bournemouth, as the "Healtheries." P. H. Longson is first permanent director.

Company News.

John Oakey & Sons, Ltd.—The directors announce an interim dividend at the rate of 10 per cent. per annum (10*s.* per share), free of income-tax, on the ordinary shares for the past half-year.

Creditors of Nahor Withnall & Co., Ltd., wholesale chemists, Moss Lane West, 36 Upper Jackson Street, and 39 Barlow Moor Road, Manchester, in voluntary liquidation, include: C. R. Harker, Stagg & Morgan, Ltd. (81*l.*); D. & W. Gibb, Ltd. (14*l.*); Lorimer, Marshall, Ltd. (7*l.*); Grossmith & Co. (11*l.*); James Woolley, Sons & Co., Ltd. (23*l.*); Blyton, Astley & Co. (11*l.*); W. Mather & Co. (10*l.*); Edward Taylor, Ltd. (8*l.*). The liabilities are 1,116*l.* 17*s.* 10*d.*, and assets 846*l.*

Stephen Smith & Co., Ltd.—The report of the directors for the thirteen months ended April 30, 1914, states that the turnover and profit show an increase on the previous thirteen months' trading, and the business of the company is very satisfactory. The directors intended to recommend the payment of a bonus dividend on the preference and the ordinary shares, as was done last year, but, owing to the war, they consider it in the interests of the shareholders to withhold this for the present and add an extra amount to reserve account, which now stands at 50,000*l.*, by the addition of 10,000*l.* this year, as shown in the accounts. The usual 6 per cent. on the preference shares has been paid for the thirteen months, and the directors recommend a dividend at the rate of 10 per cent. per annum on the ordinary shares (of which 5 per cent. for the first six months has already been paid *ad interim*), leaving the sum of 328*l.* to be carried forward to the credit of the next account.

Private Meeting.

The creditors of Mr. W. Hughes Roberts, chemist, 391 Wellington Road, Heaton Chapel, met recently in Stockport, when a statement of affairs was submitted showing liabilities 429*l.* 2*s.* 4*d.*, and assets estimated to produce 203*l.* 5*s.* After allowing 42*l.* 5*s.* for the claims of preferential creditors, the estate showed a deficiency of 268*l.* 2*s.* 4*d.* The debtor commenced business with 200*l.* capital about eight years ago, but had steadily lost all this money. It was decided that a deed of assignment should be executed to Mr. Leah, of Stockport, and Mr. Parkin S. Booth, of Liverpool, with a view to disposing of the business as a going concern. The following are creditors: Evans Sons Lescher & Webb, Ltd. (100*l.*); Clay, Dod & Co. (11*l.*); Brooks & Co. (21*l.*); E. Mathew & Co. (10*l.*); L. Shaw, Ltd. (63*l.*); Camwal, Ltd. (13*l.*); J. Timpson & Co., Ltd. (6*l.*); Meggeson & Sons, Ltd. (5*l.*); Elliott & Co. (7*l.*); Potter & Clarke, Ltd. (6*l.*). The deed of arrangement has been registered.

"Many London chemists are only selling English Eau de Cologne now. In the window of a Strand chemist to-day was the following notice: 'During the South African war Eau de Cologne was greatly appreciated by the sick and wounded. We shall be glad to supply Eau de Cologne at wholesale prices and forward it carriage paid to any hospital or nursing-home for anyone wishing it sent to the sick and wounded soldiers and sailors.'"—*Evening News.*

BIRTHS.

Authenticated notices are inserted without charge.

Forryan.—At 40 Duncan Road, Leicester, on August 21, the wife of C. A. Forryan, chemist and druggist, of a son.

Irvine.—At Langholm, Kendal, on August 25, the wife of James Irvine, chemist and druggist, of a daughter.

Walton.—At Batley Carr, on August 20, Mrs. E. Walton, chemist and druggist, wife of T. H. Walton (T. H. Walton & Co., Ltd., Comet Works, Cleckheaton), of a son.

MARRIAGES.

Authenticated notices are inserted without charge.

Hamilton—Chalmers.—At Alva, on July 27, by the Rev. J. A. Williamson, John R. Hamilton, chemist and druggist, Birmingham, to Susan, fourth daughter of Mrs. W. Chalmers, Alva.

Harrop—Schofield.—At Christchurch, Blackpool, recently, Albert L. Harrop, chemist and druggist, to Cissie, elder daughter of Mr. Hy. Schofield.

Kelly—Boland.—At the Church of St. Andrew, Westland Row, Dublin, on August 18, by the Rev. James Rossiter, C.C., Enniscorthy, assisted by the Rev. F. J. O'Donohoe, C.C., Patrick Edward Kelly, Ph.C., The Medical Hall, Slaney Place, Enniscorthy, to Angela, youngest daughter of the late Edward and Mrs. Boland, Millpark, Enniscorthy.

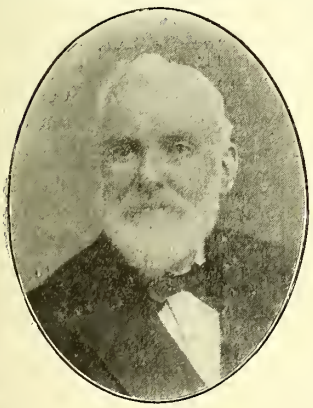
Wilkinson—Wickham.—At St. Paul's Church, Poona, India, on August 8, Alfred Wilkinson, chemist and druggist (late of Shipley, Yorks), to Grace Emily Norah, daughter of Major and Mrs. Wickham, Parade Ground Road, Poona.

Young—Price.—At the Mariners' Church, Kingstown, Ireland, on August 19, by the Rev. Robert Price, M.A. (uncle of the bride), assisted by the Rev. Mercer Wilson, M.A., Frederick Goodwin Young, Ph.C., the Medical Hall, Newbridge, co. Kildare, son of the late W. K. Young, L.P.S.I., and Mrs. Young, Newbridge, to Frances Emily, eldest daughter of Mr. J. C. Price, Edward Street, Newbridge.

DEATHS.

Authenticated notices are inserted without charge.

Brodie.—At 8 Apsley Place, Glasgow, on August 19, Mr. Robert Brodie, chemist and druggist, aged seventy-seven. Mr. Brodie retired from business early this year (*C. & D.* March 7, p. 38). He had long been a highly respected member of the craft in Glasgow and the West of Scotland. Born at Leek, Staffordshire, in 1836, of Scottish parents, he accompanied them to Paisley at an early age. After receiving the elementary schooling which existed in those days he began his wage-earning career in a printer's office at the early age of ten years. In 1850 young Brodie left the printer's for the drug-trade, being engaged by the late Dr. Jas. Paterson, Paisley, as shop-boy. On Dr. Paterson's removal to Partick the shop was bought by an ex-schoolmaster with no knowledge of the drug-trade, and Mr. Brodie continued in his situation to act as mentor to his employer. After four years' service in Paisley Mr. Brodie removed to Glasgow as assistant to Dr. Morton in Crown Street, which business he took over from the trustees after Dr. Morton's death in 1877. At the time he went to Glasgow Mr. Brodie eagerly availed himself of all the educational facilities within his reach, attending early morning classes in Latin and Greek, and securing prizes in both. Chemistry and botany he studied at the Mechanics' Institute, and passed the Modified examination in June, 1873. He was a prominent Freemason and took a keen interest in local pharmaceutical affairs. As a member of the old Glasgow Druggists' Early Closing Association, he took an active share in the work of that body, in which he had as colleagues such men as Dr. A. M. Robertson, Mr. A. Kinninmont, Mr. Daniel Frazer, and Mr. A. Paterson. Mr. Brodie, during his long business career at 253 Crown Street, built up for himself an enviable reputation as a pharmacist among his customers, and the respect in which he was held by his fellow-craftsmen in St. Mungo's city was shown by the fact that a few weeks ago a deputation of Glasgow pharmacists presented him with a purse of sovereigns as a mark of his distinguished services to local pharmacy. When health and time permitted, he attended the meetings of the British Pharmaceutical Conference. On the occasion of the 1905 meeting at Brighton he was one of the party which visited Paris, and when the Paris School of Pharmacy was inspected, Mr. Brodie, as the senior, replied in French to the toast of "Britain in general and British Pharmacy in particular." By his well-stored mind and by his kindly disposition Mr. Brodie had endeared himself to his professional brethren, and it can be truly said that pharmacy is the poorer by his death. Mr. G. Shiach Kitchin, writing on behalf of the Glasgow and West of Scotland Chemists' Association, says of Mr. Brodie: "Among those privileged to enjoy his intimate acquaintance the passing of his gentle and kindly personality is keenly regretted."



Mr. Robert Brodie.

Cole.—At Rhyl, on August 22, Mr. William Henry Cole, chemist and druggist, 4 Bridge Street, Congleton. Mr. Cole died as a result of injuries sustained while motor-cycling near Rhyl. Owing to an error of judgment, Mr. Cole, in attempting to pass two vehicles, ran his machine inside the wheel of a float coming from the opposite direction and was heavily thrown and trampled upon by the horse. He was attended to by Dr. Thomas, but died from shock and concussion. Mr. Cole passed the Minor examination in January 1894.

Edwards.—At Hayes Town, Middlesex, on August 14, Mr. Joseph G. Edwards, chemist and druggist, aged eighty-four.

Elstob.—At Commercial Street, Rothwell, Yorks, on August 18, Mrs. A. M. Elstob, wife of Mr. John Elstob, chemist and druggist.

Jones.—At 114 Highbury New Park, London, N., on August 3, Commarina, wife of Mr. T. C. Jones, chemist and druggist, formerly of South Street, Manchester Square, W.

Kirkland.—On board s.s. *Galway Castle*, bound for South Africa, Mr. Arthur Kirkland, Ph.C., late of 392 Clapham Road, S.W., and the London College of Pharmacy, aged thirty-six.

Moir.—At Wallasey, Cheshire, on August 15, Mr. David Moir, chemist and druggist, aged sixty-seven. Mr. Moir was a Dumfries man, and passed the Modified examination in January 1869. He was for a time in Adelaide, South Australia, but returned to this country a few years ago, and was registered as of the Vale Drive, New Brighton.

Mr. Thomas James Hayes, 111 Warley Road, Great Warley, Brentwood, who died on June 29, left estate valued at 979*l.* 6*s.* 11*d.* gross, with net personalty 308*l.* 9*s.* 7*d.*

Mr. Frederick William Ashton, Ph.C., 19 Croftdown Road, Highgate, London, N., who died on July 28, left estate of the gross value of 1,328*l.* 6*s.* 6*d.*, of which 730*l.* 16*s.* 8*d.* is net personalty.

Mr. Samuel Herbert Benson, Beechgrove, Sydenham Hill, London, S.E., advertising-agent, who died on July 21, left estate of the gross value of 17,478*l.* 17*s.* 1*d.*, of which the net personalty has been sworn at 17,171*l.* 14*s.* 6*d.*

WESTMINSTER WISDOM.

The Week in Parliament.

The Reassembling of Parliament.

Both Houses of Parliament reassembled on Tuesday, the principal business being the passing of emergency legislation in connection with the war.

Assistants to Chemists and Druggists (Qualification) Bill.

This Bill, promoted by Mr. W. S. Glyn-Jones, M.P., still figures on the order-paper of the House of Commons, although there is no probability of any progress being made with it during the present Session. There is a motion for its rejection standing in the name of Sir John Rolleston, M.P.

Trading of German Companies.

Mr. J. M. Henderson asked the President of the Board of Trade on Wednesday whether it is proposed to grant licences to trade to companies recently registered in England the shares of which are held by Germans living in Germany, and which companies are merely a change of name from the original German firms or companies, the ownership being the same—viz., German.

The President (Mr. Runciman) replied that inquiries are being made into this matter, which will have very earnest consideration. This announcement was received with cheers.

The Moratorium.

Speaking in the House of Commons on Wednesday evening, the Chancellor of the Exchequer stated that 10,000 copies of a *questionnaire* had been issued to leading traders of the country regarding the moratorium. Of 8,000 replies, 3,500 were in favour of extending the present moratorium beyond September 4, and 4,500 were not in favour of extension. A decision will be come to in a few days. The Chancellor added the following significant remarks:

"We have been told the steps we have taken in regard to the discounting of bills involve risk. This is a time when we must take risks. We must keep up the credit of this country; for, after all, it is upon the strength of the credit of this country that the whole of our trade has been won. We have got to keep the machinery of trade, commerce, and industry going so that we shall not find at the end of the war the important business that we have been transacting with the whole of the civilised world has passed away to some other country. It may be necessary to take stronger action. A good deal depends upon the banks. I think we have done for the banks as much as they ever could have expected of us. But we did not do it in order to strengthen their position or to increase their dividends. We did it in order to enable them to finance the trade of the country during a crisis, and while the Government and the country are prepared to take risks, the banks must take risks as well."

Dentists and the War.

Mr. H. J. Tennant, M.P., replying to a question in the House of Commons on Wednesday, said instructions had been given to the medical examiners that no man, who is organically sound, is to be refused on account of bad teeth, unless his appearance led the medical officers to believe that the loss of teeth is a distinct cause of mal-nutrition. Many highly qualified dental practitioners and well-known dental institutes throughout the country are in communication with the recruiting officers, and are patriotically giving their services for the free treatment of any recruits whose acceptance for the Army can be assured provided that their dental defects are first remedied.

Emergency Bills.

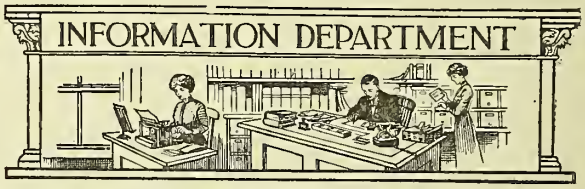
Several Emergency Bills were formally read for the first time in the House of Commons on August 25—viz.:

A Bill to enable orders to be made for restricting the sale of intoxicating liquors during the war. (By Mr. McKenna, Home Secretary). A Bill to extend the list of articles the exportation of which may be prohibited under the Customs and Inland Revenue Act; a Bill to give power to obtain information as to stocks of articles of commerce, and to enable possession to be taken of such articles unreasonably held; and a Bill to give powers to deal with all patents and licences where the benefit accrues to an enemy. In this registered designs are included. (By Mr. Runciman, President of the Board of Trade.) The last-mentioned Bill is to amend the one printed in the *C. & D.*, August 22, p. 34, and gives power to deal with all patents and licences where the benefit accrues to the enemy. The question of registered designs is also included. We subjoin the effective clauses:

In section 1 for the words "any patent or licence granted to, and the registration of any trade-mark the proprietor whereof is, a subject of any State at war with His Majesty, and any proceedings on any application made by any such person under either of the said Acts," there shall be substituted the following words: "Any patent or licence the person entitled to the benefit of which is the subject of any State at war with His Majesty; for avoiding or suspending the registration, and all or any rights conferred by the registration, of any design or trade-mark the proprietor whereof is a subject as aforesaid; for avoiding or suspending any application made by any such person under either of the said Acts; for enabling the Board to grant in favour of persons other than such persons as aforesaid on such terms and conditions, and either for the whole term of the patent or registration or for such less period, as the Board may think fit, of licences to make, use, exercise, or vend, patent inventions and registered designs so liable to avoidance or suspension as aforesaid";

At the end of the same section the following sub-section shall be added:

"(4) This Act shall apply to any person resident and carrying on business in the territory of a State at war with His Majesty as if he was a subject of that State; and the expression 'subject of any State at war with His Majesty' shall, with reference to a company, include any company the business whereof is managed or controlled by such subjects, or is carried on wholly or mainly for the benefit or on behalf of such subjects, notwithstanding that the company may be registered within His Majesty's dominions, and where a patent has been granted to any person in respect of an invention declared in the application or any specification to have been communicated to him by some other person, that other person shall for the purposes of this Act be deemed to be the person entitled to the benefit of the patent unless the contrary is proved."



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

An increasing number of inquiries is coming to this Department daily for the names and addresses of makers, or first-hand suppliers, of many chemicals and pharmaceutical requisites usually obtained from the Continent. We shall appreciate, therefore, prompt and trustworthy information regarding actual manufacturers or first-hand dealers (other than Continental) of the following:

Acetanilide.
Acetic acid and acetates.
Bone-rings, manicure appliances, etc.
Bromine and bromides.
Cachets (empty).
Celluloid eye-shades, toilet-articles, etc.
Chloral hydrate.
Diethylbarbituric acid.
Epsom salts.
Formaldehyde.
Gallic acid.
Glass syringes.
Glass tubing (for chemical apparatus).
Hexamethylenetetramine.
Hydroquinone.
Iodine and iodides.
Ivory toilet-goods.
Lanolin.
Lithium salts.
Methyl alcohol (pure).
Methyl-para-amido-phenol.
Microscopes.
Paraldehyde.
Perfume-sprays.
Phenacetin.
Phenolphthalein.
Photo lenses, etc.
Potashes.
Potassium permanganate.
Pyrogallic acid.
Sodium hyposulphite.
Thermometers (household).
Vacuum flasks.
Willow-boxes.

Postal or telephone information regarding the agents for or makers of the undermentioned articles likewise solicited:

66/1. "Orivole" capsules (as sold in Australia).
67/59. "Swift" safety-razors.
67/61. "Granatin."
67/57. "Mista" sprays.
67/58. Sleeman's capsules for dogs and cats.

Particulars of a large number of inquiries about which information has been supplied are held over until a future issue.

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The Method of "Levelling-up" the Insurance Tariff adopted by the Commissioners is unsatisfactory, not only because of its cumbrousness, but on account also of the incompleteness of the schedule accompanying it. On the first count it stands self-condemned, for it contemplates the possibility—a very probable possibility!—of being found of more trouble than it is worth. It is very kind of the Commissioners not to insist upon our furnishing an account of extra cost if the value of the time spent in doing so overbalances the loss on the drugs (and I should not like to suggest that the wish was here father to the thought), but since they recognise that our time *has* value it would have been more reasonable to allow us a little extra payment for it than to set the loss of it in the scale against another loss. I need not enlarge on the trouble involved in the matter. Prices will vary from day to day; they will always be a little in advance of actual quotations, and probably a good deal in advance of the schedules supplied to us; if these schedules include, as they ought to do, all articles seriously advanced in price, either directly or indirectly, by the war, it will be an endless task to adjust prices to them, and to keep "a special record" of all the minute quantities of drugs dispensed at advanced rates.

What is a "Fine Chemical"? This is the question that not a few people have been asking these last few days. The proclamation of the Board of Trade, prohibiting the exportation of "fine chemicals," has produced quite a flutter, for naturally the Custom House officers are rather chary of deciding what ought or ought not to be included in the category. Indeed, it is quite conceivable that different officials may take opposite views, and we may have one man prohibiting a given product and another passing it for export when the applications for licences to export are presented. One of the principal difficulties is as to alkaloids; are they "fine chemicals"? To the man in the street, of course, they are, but do we in our specialised departments consider that an alkaloid is a chemical? I am not sure myself what I should say if I had to give an opinion; I am afraid I should be guided in my decision largely by what the particular alkaloid was, and that really would be a case of begging the question. It is a mistake for the Board of Trade to deal in collective phrases of this character. A clear definition could be made as to what should and what should not be exported, though there, again, the question of concentration or dosage would have to be left indefinite. Clearly every case ought to be decided on its merits.

"The Recovery of Trade" lost to Germany is not quite an accurate statement of the problem with which as pharmacists we are now faced, for we cannot recover what we have never had, and the fact is that the production of "fine chemicals" has from the first been pre-eminently a German industry. We have allowed that country to steal a march upon us here, and our business now is rather to capture than to recover what we ought to have won long since. It is true that we have many difficulties to overcome, some of them natural, others created for us by stupid laws—it is, for instance, as you say, scandalous that fiscal regulations should hamper important manufactures—but while agitating for the removal of these where such removal is possible, we must not forget the great primary cause of our backwardness in chemical research. We English, it has often been said, are rather a practical than a philosophically minded race, and we have done comparatively little by our system of education to supply whatever natural defect we may have in this regard. Technical education in itself is not enough, because it is not good enough without a thorough general education as its basis. "Medical education," says Mr. Pritchett, "is an educational rather than a professional problem," and the truism is equally applicable to chemical education. A writer in "The Athenæum," reviewing a report of the Carnegie Foundation for the Advancement of Teaching, points to the fact that "in those countries in which the elementary secondary school system is weak the general level of professional education is low," and a leading English scientist recently declared that he would rather have as a pupil in any science a youth of good education than one who without this had a considerable previous knowledge of the subject to be studied. We have here the secret of the superiority of the average German over the average Englishman, both in the scientific and in the business field: he is better educated; and I commend the fact to the consideration of those who think the preliminary education of English pharmacists overdone.

"Menial Work" has always appeared to me to be a self-contradictory phrase. If any man's labour is expended in real work—work in the true sense of that word—it never can be menial, and therefore I consider it is quite wrong and most undignified for anyone to speak of the work of the message-boy or the porter as being "menial." It is nothing of the kind. Such work is just as essential to the carrying-on of the pharmacy in an orderly manner, and every whit as honourable, as that of the first assistant at the dispensing-counter. Like most pharmacists who have passed middle-age, I swept the floor, cleaned the windows, dusted the shop-rounds, and washed bottles, but I had been trained to regard these as honourable tasks, and I hope I performed them to the best of my ability. I have never once regretted that I had them to do. It is a great pity that this most useful part of the training of an apprentice is now often so much neglected. As "Manager" says, many apprentices begin their career with a swelled head, and, unfortunately, the disease often continues with them to the end. An apprentice who is impatient of the manual tasks of the shop makes a poor pharmacist, and I make bold to say that an analysis of the prize-lists of any school of pharmacy will show that the men who come out on top are the very men who, in nine cases out of ten, had to perform so-called "menial" tasks at the start of their career.

A Minor Puzzle, and not a Minor "problem," is a more correct term to apply to the question quoted as having been set at the last Minor examination. Assuming it is correctly set down, the question can be solved in about half a score of ways, and, if any one of these had been correct as to the mere figuring, the candidate ought not to have been ploughed. If he *was* ploughed on this question, I can only characterise it as a scandal. ℥iv. may mean: (1) 4 oz. by avoirdupois, or (2) by apothecaries' weight, or (3) 4 fluid ounces, as you have assumed. Then the introduction of ʒj. may lead to half-a-dozen more variations. You assume it to mean 60 minims, but it may be 60 grains, or one-eighth part of an ounce avoirdupois. It is not possible from internal evidence to determine which variation was intended. As the question stands, it is quite ambiguous, and it is more than probable that the man who set it meant one of the less obvious solutions, seeing he employs glycerin, and, in that case, specific gravity might have to be taken into account, or it might not. If he had said, "Make 4 fl. oz., so that when 1 fl. dr. is diluted," the problem would present no ambiguity and little difficulty. In that case I would adopt a much shorter method than yours; 4 fl. oz. contain 32 fl. dr., which make 32 pints or 280,000 fluid grains. This quantity, divided by 5,000, gives as the answer 56 grains. I am not at all concerned about the solution of a straightforward problem, which every candidate ought to be able to work out, but I am concerned to know why the Government visitor does not protect candidates from idiotic questions like these.

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LIQUORS

Editorial Articles.

Imports: A Cheering Position.

"On Monday morning, at half-past six, King George V. stood on the bridge of the *Victoria and Albert*, when she commenced to steam down the Solent, leading Britain's battleships to sea. They say that there has never been such a spectacle . . . the zenith of protective perfection. . . . In this week of great political stress, and of magnificent naval demonstration, the words 'Wake up, England!' are appropriately recalled. We are essentially 'a nation of shopkeepers,' manufacturers, and merchants, whose goods are taken to the earth's confines; and since the memorable three words were uttered we have recognised better what our business is, our responsibilities, our potentialities, and—may we add?—our weaknesses. George the Fifth on the bridge of the Royal Yacht leading the fleet is the top note of British business."—*C. & D.*, July 25, 1914.

According to all prediction, the first thing that was to happen to the United Kingdom on her participation in a European war was the immediate stoppage of importations. Common belief in this prediction was largely the cause of the potential panic-prices which commenced in the first week of the month, but which were scotched by the prompt action of the Government. Apart from that, a steady arrival of goods from all parts has continued since our fleet gripped the command of the seas and our coast has been freed comparatively from those horrible dangers to shipping which German adventurers have been sowing in the seas. Moreover, since the outbreak of hostilities many shipments of food and produce of all kinds appear to have been diverted to London and other British ports, with the result that there is a steady accumulation of supplies; in fact, with the probable exception of sugar, unusually large quantities of food have now arrived in this country. In other words, supplies that would have gone to Germany, France, Belgium, Italy, etc., in the usual course have found a haven in British ports. It is not that there are no Continental ports open, but neither the United States, Canada, nor the financial markets of the Colonies can negotiate exchange with the Continent, Great Britain being the only country where there are open ports and where exchange is negotiable. It has now been found necessary to modify the Proclamation relating to the exports of provisions, etc., and Belgium has been added to the list excepted from the prohibition, this showing that the position is much easier and the outlook brighter than at the opening of the war. We have compiled a list of arrivals during the past fortnight of goods which are of special interest to the chemical and drug trades. Where not stated the figures denote packages:

Acetic acid (Rotterdam)	575
,, ,, (New York)	239
Acetone (Philadelphia) ...	112
,, (New York) ...	71
Agar-agar (Marseilles) ...	5
Albumen (Havre)	14
,, (Shanghai) ...	63
Alcohol, wood (Montreal)	147
Almonds (Spain)	15
Aloes (Mossel Bay) ...	39
Alum (Skein)	44
Ammonia nitrate (Skien)	232
Ammonia (Philadelphia) (cyl.)	50
Anise, star (Hong-Kong)	100
Areca (Ceylon)	38
Argol (Italy)	518
Arrowroot (St. Vincent)	300
,, (Trinidad) ...	35
Arsenic (Portugal) ...	81
Balsams (Savanilla) ...	5
Bay rum (St. Thomas) ...	13
Benzol (Hamburg) ...	36
Borate of lime (Antofagasta)	11,266
Boric acid (New York) ...	746
Buchu	21
Calcium carbide (Odda) (drms.)	15,900
Camphor, crude and refined (Japan)	725
Canary-seed (Spain) ...	450
,, (Plate) ...	446
Caraway-seed (Holland)	150
Carbonic acid (Rotterdam) (cyl.)	360
Cardamoms (Bombay) ...	25
,, (Colombo) ...	215
Casein (Buenos Ayres) ...	200
Castor oil (East Indies)	75
Castor-seed (Calcutta) ...	4,554
Celery-seed (Marseilles) ...	20

Chillies (African)	37
Citric acid (Italian) ...	40
,, ,, (Palermo) ...	20
Cocaine (H. Kong) (cs.)	6
Cod-liver oil (Norway) ...	32
Cod oil (Japan)	300
Colza oil (Philadelphia) ...	193
Coriander (Morocco) ...	569
Cream of tartar (Marseilles, Bordeaux, Amsterdam)	171
Cumin-seed (Saffi)	605
,, (East Indies)	30
Dextrin (U.S.A.)	355
,, (Amsterdam) ...	50
Drugs (Havre to Liverpool) ... ... (cs.)	415
Drugs (New York) ...	49
Egg-yolk (China)	327
,, (Rotterdam) ...	20
Ergot (Vigo)	87
Essential oils (Marseilles)	50
,, ,, (Sicily) ...	45
Fellows' syrup (New York)	241
Fenugreek-seed (Morocco)	524
Fish oil (Japan) (pkgs.)	28,000
Formaldehyde (Rotterdam)	4
Formic acid (Rotterdam)	54
Galls (Persian Gulf) ...	184
Gambier (Singapore) ...	2,761
Gentian	6
Geranium oil (Havre to Liverpool)	20
Ginger (H. Kong) ...	200
,, (Jamaica) ...	126
Glucose (Rotterdam) ...	40
,, (Philadelphia) ...	120
,, (New York) ...	788
Glycerin (Havre to Liverpool)	10
Glycerin (Natal)	24
,, (Copenhagen) ...	20
,, (Italy)	20
Gum acacia (Port Sudan)	1,798
,, ,, (Bombay) ...	548
,, ,, (Suez) ...	55
Gum copal (Macassar) ...	670
,, ,, (Singapore) ...	186
Gum damar (Batavia) ...	352
,, ,, (Singapore)	351
,, ,, (Rotterdam)	152
Gum kauri (New Zealand)	4,826
"Gums" (Holland) ...	444
,, (Singapore) ...	985
,, (Bushire) ...	2,183
Honey (St. Lucia) ...	128
,, (New Zealand) ...	81
,, (Brisbane) ...	174
Ipecacuanha (Montevideo)	42
,, (Bahia) ...	13
Jamba-seed (Karachi to Hull)	2,383
Lead, white (New York)	60
,, ,, (Genoa) ...	25
Leaves, medicinal (Marseilles) (bls.)	127
Leaves, medicinal (Leghorn)	7
Lemon-juice (Messina) ...	50
Lime acetate (New York)	2,425
,, ,, (Stockholm)	247
Lime-juice (West Indies) 109 cks., 120 puns., 55 hds., 30 drms.	
Lime oil (West Indies) ...	45
Linseed (Plate) (bgs.)	100,994
,, (India) (bgs.)	225,677
Liquorice-paste (U.S.A., Smyrna)	425
Litharge (Amsterdam) ...	6
Manna (Palermo)	2
Medicines (Boston) ...	25
Menthol (Marseilles) ...	5
Mint oil (Japan)	20
Nut oil (Rotterdam) ...	402
Nutmegs (Singapore) ...	86
Nux vomica (*in tr.*) ...	185
Olive oil (Spain)	339
,, ,, (France) ...	96
,, ,, (Smyrna) ...	3,440
,, ,, (Italy)	578
Opium (Colombo)	14
,, (Persian Gulf) ...	124
,, (Calcutta) ...	45
,, (Singapore) ...	13
,, (Turkey)	204
Orris (Italian)	21
Palm oil (African) (cks.)	2,609
Pepper, white (Java) ...	166
Pepper (E.I.)	3,575
Pimento	40
Potash. carb. (Russia) ...	100
Potash. chlor. (Sweden) ...	160
Potashes (Montreal) ...	24
Potass. iodide (Japan) (cs.)	25
Quinine (Holland) (cs.)	6
Rape-seed (Bombay) ...	2,422
Rape-seed oil (Japan) (cs.)	8,000
Rhubarb (China) ...	16
Rosin (Pensacola) ...	2,450
,, (Fernandina)	10,350
Sarsaparilla (Jamaica) ...	16
Seal oil (St. John's, Newfoundland, to Liverpool)	190
Senna	10
Shellac (India)	2,599
Soda, caustic (Philadelphia)	113
Soda nitrate (Skein) ...	1,900
Soy (Hong-Kong)	240
Soya-bean oil (Japan) 20,500 cs., 600 drms.	
Sperm oil (Japan)	1,000
Spermaceti (Japan) ...	750
Squill (Palermo)	5
Sulphur (Catania) (pkgs.)	1,109
Tamarinds (West Indies)	78
,, (Madras) ...	16
Tartaric acid (Italian) ...	19
Turmeric (India)	229
Turpentine (Archangel) ...	7,000
,, (U.S.A.) (brls)	7,701
Wax, bees' (Marseilles) ...	50
,, ,, (Chile) ...	32
,, ,, (East Indies)	154
,, ,, (Africa) ...	97
,, ,, (Saffi) ...	39
,, ,, (Italian) ...	14
Wax, paraffin (Rangoon)	5,495
,, ,, (Amsterdam)	2,498
Wax, paraffin (U.S.A.) ...	1,227
Wax, veg. (Japan) ...	25
Whale oil (Japan) ...	1,000
,, (Walfisch Bay)	818
,, (S. Africa) ...	2,649
Wine-lees (Cadiz)	157
Wood-oil (China)	668
Zinc oxide (Rouen) ...	29
,, ,, (New York)	2,650

The list demonstrates one thing well—viz., that the extent and variety of the goods are normal, especially as regards imports from India, Ceylon, the Australasian Commonwealth, New Zealand, Straits Settlements, China and Japan, the United States, Canada, and South America. This is satisfactory—a great deal better than the "nothing" which was predicted; significant also as showing that this is a branch of British business which the enemy has utterly failed to damage. We do not overlook the fact that some Continental supplies have ceased—that is in the nature of things; but our people have begun to realise what this means, and are making arrangements accordingly, by getting along without German produce.

Government Chemistry.

The annual report of the Government Chemist upon the work of the Government Laboratory for the year ended March 31 has been issued this week. The Laboratory undertakes the chemical work of most of the Government bodies, accordingly deals with a great variety of analytical work. Altogether during the year 392,367 samples passed through the Laboratory and the chemical stations connected with it. The greater number of samples are examined for Inland Revenue and Customs purposes. It is interesting to note that a systematic examination is still made for the presence of arsenic in beer and brewing-materials, and that out of 1,596 samples only six exceeded the limits laid down by the Royal Commission on Arsenical Poisoning—viz., the equivalent of one-hundredth of a grain of arsenious oxide per pound or gallon. It appears that many non-alcoholic ciders, so-called, are entirely free from fermented apple-juice, and are simply solutions of sugar which have been aërated, flavoured, and coloured. In regard to the illegal use of methylated spirit in making tinctures, essences, perfumes, and medicinal preparations, fifty-seven samples were examined, and forty-one samples of mineralised methylated spirit were analysed in connection with the unlicensed sale of this article, or with the illegal substitution of industrial methylated spirit for the mineralised variety. In connection with the use of methylated spirit and other forms of duty-free alcohol in manufactures and in teaching and research, about 600 papers relating to applications for permission to receive and use spirit were dealt with at the Laboratory for the Commissioners of Customs and Excise. These were chiefly sent for advice as to whether the purposes to which it was proposed to put the alcohol were from the chemical point of view such as to justify the granting of the particular indulgence asked for. Large numbers of samples of tobacco, sugar, tea, coffee, and cocoa were dealt with by the Laboratory. Some 304 samples of condiments, dentifrices, and medicinal preparations were especially examined for saccharin, and that sweetening agent was found in 105 samples. The report also has the following paragraph regarding the examination for various purposes of medicines:

"Sixty-nine samples of medicines, or articles offered for sale as medicines, were examined during the year in connection with the Medicine Stamp Acts. These Acts impose duties, payable by means of special stamps, upon preparations advertised for the cure or relief of human ailments. There are, however, certain exemptions, and it is chiefly in connection with these exemptions that analyses of the samples are required. Thus, a simple drug sold unmixed with any other substance, is not charged with stamp-duty, and many of the samples received were examined in order to ascertain whether they were, in fact, simple drugs or mixtures. Another provision of the Acts exempts, in certain circumstances, medicines of which the composition is known, and analyses are required to establish the identity of samples which it is claimed come within this exemption. The samples include pills, powders, plasters, herbs, ointments, lotions, tonics, corn-cures, and various other remedies. A few samples of medicines were analysed for National Health Insurance purposes, and a number of specimens of opium were examined for the information of an Inter-Departmental Committee concerned with the provisions of the International Opium Convention, 1912."

No information is given regarding the results obtained in examining the above samples. For the Board of Agriculture and Fisheries 109 samples of sheep-dips were examined in connection with applications by manufacturers for inclusion of their preparations in the official "Schedule of Efficient Dips," and fifty-five samples of blue vitriol were examined. Of the latter twelve contained large proportions of iron sulphate and two were simply iron sulphate coloured with Prussian blue. It is stated also that a number of samples of liver of sulphur were examined and found to vary considerably in composition—due, it is suggested, to improper storage.

Reference is made to the examination of a series of mediæval wax seals dating from the thirteenth to the sixteenth century, which were found to be either pure beeswax or a mixture of beeswax and resin, coloured with vermilion or verdigris. As a reference authority under the Sale of Food and Drugs Acts seventy-three samples were examined, mostly of milk, but we note that there were samples of white pepper and almond oil; in the case of the last-named drug the Laboratory certified to its purity in disagreement with the analyst. No reference is made in the report to the analyses made for the Select Committee on Secret Remedies.

Heredity.

The Australian meeting of the British Association has demonstrated in an unexpected manner the effect that the European war has in curtailing men's efforts in everything except those matters which are directly related to the interests of the Empire. The meeting concluded on Friday, August 20, without the visit to New Zealand which had been planned. The circumstance induces thoughts as to the comparative inactivity in academic, scientific, and technical circles which may be experienced in a few months if the war does not come to a favourable conclusion before the winter session. This is the year, be it remembered, when the two great Anglo-Saxon nations are supposed to be celebrating a hundred years of peace between the United Kingdom and the United States. In the midst of a war, the like of which the world has never seen before, we have in the curtailment of the British Association's meeting an inkling of the stagnation of scientific research that accompanies the application of military science.

We mentioned last week that the address of the President of the Association, Dr. William Bateson, M.A., F.R.S., was devoted to the evolutionary aspects of genetic research, and he addressed himself especially to the naturalist. Dealing first with the Darwinian Theory of the Origin of Species, he adduced evidence to show that there is no proof that the domestic animals have been produced from a few wild types. Domestic fowls present insuperable difficulties as to the true ancestor, and he might go through the list of domestic plants and animals of ancient origin always being driven to the same unsatisfactory conclusion. Of the origin of new forms *by loss* there seemed to him to be fairly clear evidence, but of the *contemporary acquisition* of any new factor he saw no satisfactory proof. All that can be safely said at present in amplification of the evolutionary creed is summed up in the statement that variation occurs as a definite event; that the establishment of varieties comes to pass by the elevation and establishment of sporadic groups of individuals owing their origin to such isolated events. Modern research lends not the smallest encouragement to the view that gradual evolution occurs by the transformation of masses of individuals, though that idea has fixed itself on popular imagination.

The second part of the address, delivered at Sydney, dealt with the bearing of the theory of evolution on the conduct of human society. The clearest evidence of regularity in the inheritance of human characteristics has been obtained in regard to the descent of marked abnormalities of structure and congenital diseases. Of the descent of ordinary distinctions such as are met with in the normal healthy population we know little for certain. There are, however, plenty of indications of system comparable with those which we trace in animals and plants, and we are assured that to extend and clarify such evidence is only a matter of careful analysis. For the present, in asserting almost any general rules for human descent, we do right to make large reservations for possible exceptions. In all practical schemes for social reform, the congenital diversity, the essential polymorphism, of all civilised communities must be recognised as a fundamental fact, and reformers should rather direct their efforts to facilitating class distinctions than to any futile attempt to abolish them. The teaching of biology is perfectly clear. We are what we are by virtue of our differentiation. The value of civilisation has in all ages been doubted. Since, however, the first variations were not strangled in their birth, we are launched on that course of variability of which civilisation is the consequence. We cannot go back to homogeneity again, and differentiated we are likely to continue.

The address was written, and in the main delivered, before war was dreamt of, otherwise Dr. Bateson could not have avoided supplementing the physiological aspects of his subject by pertinent reference to the philosophical and psychological—those characteristics of disposition which permit men of the highest degree of mental development to hark back to the methods of settling disputes which we have been accustomed to regard as peculiar to a past stage of evolution. When the period of madness is over, perhaps those who hold that human progress is in the way of culture will see to it that militarism is excluded from the sciences.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. H. Paice has purchased the business of Mr. J. Davies, chemist and druggist, 46 Erleigh Road, Reading.

Mr. F. W. Bidie, chemist and druggist, has purchased the business of Mr. A. G. Doble at Market Square, Banbury.

Mr. Spencer Street, pharmacist, has acquired the business of the late Mr. F. E. Lambert, 143 Anlaby Road, Hull.

Mr. H. G. Rix, of Church Street, Caversham, Reading, is reconstructing his pharmacy by converting a single front into a double.

Boots Cash Chemists, Ltd., are extending their business premises at 149 High Street, Chatham, by taking in the adjoining shop, 151 High Street.

Mr. J. H. Collins, chemist and druggist, late of Crofton Park, S.E., and Coulsdon, has opened a high-class pharmacy at Station Parade, Northwood, Middlesex.

Mr. J. A. Harrison, of Goodmayes, Ilford, etc., has opened a branch pharmacy at Cranbrook Road, Cranbrook Park, Ilford, under the management of Mr. H. B. Figg, pharmacist, late of Watford.

Messrs. Sparks, White & Co., Ltd., have removed the Manchester branch of their business to their new works at Royds Street, Stockport Road, Manchester. 'Phone number, 1375 Rusholme (three lines).

THE CHEMIST AND DRUGGIST DIARY, 1915.

Acting on the principle that the best way to serve the country during the present crisis is by assisting traders as much as possible, we are preparing, as usual, our annual *Diary*. The opportunity British manufacturers of chemicals and chemists' supplies now have of securing fresh markets is unique. Such an opportunity is never likely to occur again, and doubtless our friends in the trade will decide to act promptly and thus make sure of their future prosperity. The publicity which *The Chemist and Druggist Diary* gives during the whole of 1915 to the goods interesting responsible buyers in all parts of the world is one of the strongest factors in bringing business. The Publisher is now preparing the *Diary* for press, and he will be glad to receive as soon as possible full particulars regarding advertisers' requirements.

NEW BOOKS.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Brown, J. Campbell. *Essays and Addresses.* 9×6. Pp. 208. 5*s*. (Churchill.) [Uniform with the late Dr. Campbell Brown's "History of Chemistry," and is a selection from the essays and addresses of the author, prepared under the editorship of Mr. Henry H. Brown. A number of the addresses were delivered to the Society of Chemical Industry (Liverpool Section), and the editor has endeavoured to include all the detached essays and addresses of Dr. Campbell Brown which still have general interest and merit re-perusal.]

Pilcher, R. B. *History of the Institute of Chemistry, 1877-1914.* 8¾×6. Pp. 311. [This book has been compiled by the Registrar and Secretary of the Institute by direction of the Council, and the title indicates its scope and contents. The volume has been written mainly for the Fellows and Associates, and is profusely illustrated with photographs of eminent chemists who have taken part in the foundation and development of the Institute.]

LITERARY NOTES.

Volume II. of the Collected Papers from the Research Laboratory of Messrs. Parke, Davis & Co. at Detroit, Mich., has just been issued. The book contains 590 pages, and is a record of much useful and painstaking work. The bulk of the research is on bacteriological subjects, but much valuable work of a pharmacological nature is also recorded. The paper "On Crystalline Kombé Strophanthin" is of particular interest to pharmacists. Another practical paper is on "Correcting Water," which deals with methods of treating hard and alkaline waters, the removal of objectionable ingredients, and ways of improving water for washing-purposes and for diluting dips and disinfectants. The illustrations and charts with which the text is embellished form a feature of the book.

DETROIT RESEARCH.

* * *

There has just appeared a work which, in view of the question of British manufacture of synthetic drugs, is particularly opportune. It is the fifth volume of the "Encyclopédie de Science Chimique," edited by Professor Chalric, and deals with "The Principles of Analysis and Synthesis in Organic Chemistry." There are many things of special pharmaceutical interest in the volume, which is published at Liège and Paris. In the introductory remarks to the chapter on pharmaceutical products the author points out that the real development in this branch of science is comparatively modern: "It is, in fact, different in different countries, and we are compelled to acknowledge that Germany possesses, from this point of view, a certain advance over other countries." He points out that the position of France is due to the hesitation of French manufacturers to employ scientific chemical advice. He shows that the plant required is fairly limited, and that the chemist is of much more importance than the engineer in regard to the question of manufacture. In dealing with this important group of bodies, the fact should not be lost sight of that the manufacturer who takes up the preparation of them is always a possible discoverer of a valuable new remedy, especially if he employs intelligent chemists who realise fully the connection existing between chemical constitution and physiological action. From this point of view also this volume may be welcomed, as there is a most interesting and useful chapter dealing with these relationships.

MANUFACTURE OF SYNTHETICS.

The perusal of this work reminds us that, while many of the synthetic drugs which we have so largely imported from Germany are very difficult to manufacture successfully unless the necessary practical experience be available, there are still many substances which are used to a very large extent, which are made by comparatively simple reactions, and which do not present nearly so many technical difficulties as the other group of compounds. For example, the manufacture of formaldehyde has been successfully accomplished in this country: given a supply of formaldehyde, its conversion into hexamethylene-tetramine is a comparatively simple process by its reaction with ammonia. With phenol as the starting-point—of which supplies are plentiful in this country—the manufacture of acetyl-salicylic acid should present little difficulty.

The reactions underlying nearly all the synthetic chemicals used to any extent in medicine are well described in this volume, and none are too simple to be omitted. The sections on bodies of the novocaine type, and on the newer arsenical preparations, such as salvarsan, are particularly lucid, and will well repay careful attention.

The work comes at a particularly opportune time, and, although nothing can replace practical experience in large chemical operations, there is no doubt that the theoretical aspect must dominate the success of manufacturing operations, and this work will be of much use as a theoretical text-book to all engaged in the manufacture of synthetic chemicals. There are well-written chapters, too, on analytical work, on coal-tar dye manufacture, on perfumery materials, and on saponification.

MEDICAL MEMORANDA.

Venereal Treatment.

DR. J. C. MCWALTER recommends ("British Medical Journal," 1914, II., 320) as a treatment for syphilis that of Neisser, who states that it is important to combine several antisyphilities in small doses for a long time. Dr. McWalter gives 1 grain each of sulphide of antimony, calomel, and quinine with ¼ grain of capsicum every night. This should be continued for six months, with occasional intervals of a week; afterwards small doses of potassium iodide for three months longer will complete the cure. Should any sequelæ appear, minute doses of arsenic in the form of Donovan's solution will remove them.

Is Alopecia Areata Infective?

AN epidemic of alopecia areata is described by Haldin Davis in the "British Journal of Dermatology" (1914, xxvi., 207). It broke out at an orphanage for girls, of whom there were 300, all under the age of fourteen. It was first noted in March, and in June there were 174 cases, among which were two foster-mothers and a servant-maid. The patches in the head resembled ringworm, but the author was emphatic that this was not the condition. There were no scurf and no parasites in the cases. The condition was suggested as alopecia areata not of the ordinary type. The treatment adopted was vigorous and successful. The hair was washed with methylated spirit and soap, then an ointment was rubbed in, consisting of betanaphthol and sulphur. Massage of the head was given. In the severer cases a blistering-fluid was applied, and in eight cases the scalp was shaved. By October all the cases were cured. In the following March a similar outbreak occurred, and the thirty cases were cured in six weeks, when the epidemic stopped.

Pneumosan Treatment of Pulmonary Tuberculosis

DR. A. E. CARVER ("The Lancet," 1914, II., 372) reports upon the use of pneumosan (*C. & D.*, July 11, p. 53) in the treatment of pulmonary tuberculosis in cases unsuitable for the use of tuberculin. Dr. Carver first employed this treatment in cases which were not making satisfactory progress with tuberculin, and the results were so satisfactory that he determined to extend the use of pneumosan further. It is recommended that the injections be given daily, or in the case of out-patients twice weekly. For an adult the initial dose is 0.25 c.c., gradually increased to a maximum of 1 c.c. No local reactions have been observed, and general reactions, although common, as evidenced by the temperature-chart, are not associated with subjective symptoms as is usual with tuberculin reactions. The first sign of general improvement was, as a rule, diminution of cough; this was followed by increase in weight, appetite, and energy, resulting in an all-round feeling of renewed well-being. Dr. Carver gives, in tabular form, the results of his experience in 103 cases, showing that in a large proportion of these there was an improvement of the patient's general condition, resulting in arrest of the disease. He has found pneumosan a most useful drug in the so-called first and second stages of the disease, and knows of no better palliative in advanced cases. He does not regard its action as specific, but rather as tonic and alterative. He considers that it merits a more extended trial, particularly as its use appears to be free from danger even in acute and advanced cases.

"Burgoyne's" in East Ham.

A LITTLE over five years ago we described (*C. & D.*, January 30, 1909) the new chemical and pharmaceutical laboratories which Messrs. Burgoyne, Burbidges & Co. had erected at East Ham. On that occasion we remarked that the firm had "builded wisely and well," for the structure, measuring 250 feet long by 120 feet wide, is in the centre of a four-acre field (about two acres more have since been added), with the boiler and power houses in the centre. Although "Foresight" is the keynote of the business, we do not think that Mr. Thomas Farries, F.I.C., F.C.S., the head of the firm, or any of his three partners dreamt that within five years they would begin such a magnificent addition as that which they have recently completed, and which makes the establishment one of the most imposing of the kind in this country. The addition is placed in front of the six-year-old factory, and comprises a two- and three-storeyed building of over 120 feet frontage, with a wing at each side extending back to the laboratories. Near the centre of the front building is a fine arch which gives entrance to a spacious courtyard admirably suited for the receipt and despatch of goods. Architecturally the frontage is very pleasing, the portion of the block nearest the town being highest (three storeys) and stands out from the rest like a huge bay-window. The interior of the buildings reflects good taste and solidity of structure, as well as elegance of finish. Dull-polished teak is used for doors and other fittings. The express objects of the addition were to extend the manufacturing facilities and to give room for the home departments of the business, which had been housed in Coleman Street for so many years. The City office is still retained, and a certain amount of executive business is transacted there; but everything connected with the manufacture, storage, and despatch of goods is now at East Ham. To the left on entering the new building is a suite of rooms for the principals on the first floor above the surgical-instrument showrooms, and the rest of the first floor, forming the left wing, is a palatial office for bookkeepers and the clerical workers, town, home, and export heads of the ledger departments having their rooms contiguous with the sections of the offices to which they pertain. To the north or right of the archway the floors are for warehousing purposes; and, although it is but a month since the contents of the Coleman Street warehouse were taken to East Ham, work is proceeding smoothly and in orderly fashion. Hitherto all the export business has been done from here, and the department is now worked along with similar home departments, so that there is notable uniformity in all the work without duplication of labour or waste of time.

The firm have held for seven years the War Office contract for medicines. This is at present a business in itself, yet the ordinary business of the firm in all departments, saving export orders held up in consequence of the Board of Trade proclamation, is proceeding expeditiously and smoothly. This is a tribute to the staff organisation and spacious equipment of the place. It is a particularly fortunate circumstance that Messrs. Burgoyne, Burbidges & Co. are so favourably situated as they are at this juncture, for their warehouses are within ten minutes of the Army Medical headquarters at Woolwich, so that the delivery of supplies is effected with the best possible expedition. They are also well placed as regards stocks, and the extensions of the factory departments have enabled them to cope with the exceptional demands for the different forms of galenicals and chemicals required. The British War Office has this month demonstrated to the world how well it is able to deal with emergencies, and we have learnt that this is due to the fact that organisation and system reign supreme in Whitehall. These extend to Burgoyne's as the medicine-contractors. Each case of any particular medicine is numbered and its contents inscribed; a rope handle at each end enables one or two men to pick up a case, and everything is stowed in the handiest way for quick distribution, and in correct dosage. This is not the time to enter into details, but we may at least say that the War Office have in Burgoyne's tapped an apparently endless source of supply, as well as a fount of enterprise.

In conversation with Mr. Farries and his partners we learnt that they have already begun to make fine chemicals for which we have relied hitherto on Germany; and their laboratories are to be extended so that more in this line may be made. An instance of what they have done since we described these laboratories five years ago may be cited in a distinct factory which they have erected for the manufacture of bismuth salts. The laboratories, being isolated from other factories, are favourably situated for the production of white chemicals free from smut-spots, and the partners are fully alive to the possibilities of the location as well as of the unusual commercial situation which is so hopeful for future business and present enterprise.

TRADE NOTES.

The Natural Food Co., Ltd., intimate that the prices of their specialities have remained unchanged during the present crisis.

Messrs. Jules Lang & Son announce that they hold in stock French and Belgian bottles of various types, and ask customers to "help our Allies."

Semreh Bottle-caps have not been altered in price, is the announcement made in this number by the Viscose Development Co., Ltd., Bromley.

Aerators, Ltd., on account of the increased cost of raw material, are compelled to raise the prices of sparklet syphons, but the prices of sparklet bulbs are unchanged.

"Surco" Seamless Hosiery.—The manufactures of seamless hosiery by the Surgical Hosiery Co., Ltd., Russell Street, Nottingham, are now distinguished by the mark "Surco."

"Maw's Page" bears this week the heading "Business as usual," and is devoted to domestic supplies. The large stocks held by the firm have been of great service at this juncture.

Surgical Instruments and Druggists.—Messrs. Burgoyne, Burbidges & Co., East Ham, London, E., make a special announcement of an assuring nature regarding the supplies of these goods.

Daisy, Ltd., make a striking war announcement, in which they inform their customers that their prices, discounts, and credit terms remain unchanged. They solicit postcard requests for showcards, etc.

Messrs. Ford, Shapland & Co.'s motto is "Business as usual." They announce that they are using every effort to minimise the disturbance of prices, and that they hold large stocks ready for immediate despatch.

The Odol Chemical-works, 59-63 Park Street, London, S.E., inform us that owing to the war they have postponed to a later date the photograph competition which they inaugurated some weeks ago.

Messrs. Pritchard & Constance (Wholesale), Ltd., ask buyers to send for samples and quotations for substitutes for toilet-articles of Continental origin. These they manufacture, and can supply at low rates.

C. R. Harker, Stagg & Morgan, Ltd., Mile End, London, E., advertise "Arkryl," an all-British disinfectant and detergent, and draw attention to "Arkol," a pure liquid paraffin, and "Arkolax," a pleasantly flavoured laxative confection.

Radiozone Oxygen Baths are an approved method of administering oxygen in cardiac and vaso-motor disturbances. The patentees and sole manufacturers are Messrs. Wright & Co., Buxton, and they are able to supply independent of Continental scarcity.

Reports of the Position are embodied in the advertisement of Messrs. May, Roberts & Co., Ltd., in this issue. The information is of great interest, and gives chemists a faithful reflection of the condition of affairs regarding druggists' supplies at the present time.

Messrs. John Timpson & Co., Ltd., inform our subscribers that they hold large stocks of surgical dressings, plasters, etc. Special attention is drawn to rubber adhesive plaster, nicely packed in a convenient size, so that it may be cut to suit any likely requirement.

British-made Pill-boxes.—Messrs. Robinson & Sons, Ltd., Chesterfield, continue the series of artistic and striking announcements regarding their position in the manufacture of all kinds of druggists' boxes. In these the British lion is the central feature. Watch his attitudes week by week.

Vitafer is an "All-British" tonic food. It is the well-known product of Messrs. Southall Bros. & Barclay, Ltd., Birmingham, and all its ingredients are made in the United Kingdom. The company also announce that there is no alteration in the quality, size, or price of Southall's towels.

The American Drug Supply Co., 6 Northumberland Avenue, W.C., intimate that a 50 to 100 per cent. increase in freight charges, in addition to a war risk of 3 per cent., necessitates a small advance in prices on proprietary goods now arriving by transatlantic steamers, but this does not apply to goods in stock *ante bello*.

Messrs. Burroughs Wellcome & Co. draw attention in our advertisement pages to English-made cocaine, cocaine hydrochloride, and hypodermic cocaine hydrochloride "Tabloids." In view of the shortage of ergot and glycerophosphates from foreign sources, their announcement that ergot preparations and glycerophosphates are made at Dartford merits attention.

Thermogene Bonus Offer.—Particulars are given in this issue of the special offer of the Thermogene Co., Ltd., Hayward's Heath, to which reference was made last week. From the advertisement in this issue it will be seen that orders received during September for six dozen Thermogene will be accompanied by a bonus of an extra 1½ dozen. There is appended to this a condition as to window-displays, for which purpose window-dressing material is supplied.

Pacolol is a disinfectant of the liq. cresolis saponatus type, and is claimed to be superior to the best of the German fluids, having a carbolic coefficient on *Bacillus typhosus* equal to 3.18, and giving a clear mixture with distilled water. The makers—Pearson's Antiseptic Co., Ltd., 15 Elm Street, London, W.C.—emphasise, in our advertisement columns, the fact that it is British made. The company has secured the contract for the supply of "Hycol" disinfecting-fluid to the South African Government Railways.

Poudre Gras.—Messrs. F. Schutze & Co., Ltd., manufacturing perfumers, Black Bull Works, Caledonian Market, London, N., are sending out their new Poudre Gras packed in an original manner. The powder is lightly compressed and placed in a small circular box; included is a small puff, and the inside of the lid is fitted with a small mirror. The whole makes a package specially suitable for the "vanity" bag. There are several other styles of packing for Poudre Gras, but the one we have described is a good selling line.

An Eighth Edition of Southall's "Materia Medica," a text-book which has been used and appreciated by many generations of pharmaceutical students, is in course of preparation, but will necessarily be delayed on account of the postponement of publication of the new British Pharmacopœia, as the new work will treat of all changes in official materia medica. The revision of the eighth edition is being done by Mr. E. W. Mann, Ph.C., B.Sc. (Lond.), F.I.C., and the book will be published by Messrs. J. & A. Churchill, 7 Marlborough Street, London, W.

The Supply of Salicin.—An advertisement in this issue contradicts a circular sent from the Home Office which stated that salicin is in short supply. The British manufacturers have sufficient salicin to last for about two years. The announcement in the circular referred to was probably made under the misapprehension that salicin is synthetically prepared in the same way as salicylates. It will be remembered that the use of salicin for rheumatism antedates the introduction of the salicylates—in fact, the use of the latter is founded on the benefit which salicin exhibits in medical treatment.

Erasmic Eau de Cologne.—The Erasmic Co., Ltd., Warrington, send us specimen bottles of their new Erasmic eau de Cologne, and the company are making this perfume the subject of their advertisement in this issue. The Erasmic Cologne is made in this country, in the company's perfumery laboratories, and is put up in the familiar shaped bottles labelled in a distinctive but tasteful manner. There is a border of pale pink on the label, the lettering and ornamentation being in gold. The perfume is excellent, and should make for itself a lasting reputation among all classes of customers.

The P.A.T.A. List of protected articles for August contains the following additions—viz., "Amami" shaving-sticks, Barnett's perfumes, Pape's "Diapepsin" compound, Robinsss Co.'s "Velvene" vanishing cream and "Gloriette pour les Cheveux," Smith's "Lanco" preparations, and Zol. Several articles have been altered in price this month, including "Amami" cream, Higgins' photo mounter and drawing-board mucilage, Huxley's "Crème de Luxe" tooth-paste and syrups, Litto Perfumery Co.'s petroleum hair-tonic, "Maltolactone" tablets (2*s*. 6*d*. size), Smith's "Gestino" malted food and Niticide head-soap, and To-Kalon Co.'s "Poudre Fascination de To-Kalon" (5*s*. size withdrawn).

Casein Products.—At the present time it is specially interesting to note that Casein, Ltd., Battersea, London, S.W., are able to give the trade the assurance that their three standard products are, and have always been, made in England. These are Secwa (food for infants and invalids), Vi-Casein (a purin-free nitrogenous food enriched with glycerophosphates), and Vitalitas True-milk (milk-powder). The latter two products have been supplied to Sir Ernest Shackleton for the Antarctic Expedition. It is important to note that these milk-products contain the natural enzymes unchanged and active—a distinct advantage for nutrition and health-maintenance. Casein, Ltd., supply their products in bulk or packed as chemists desire.

Women in Pharmacy.—In an article in our Educational Number (August 15, p. 69) we drew attention to the fact that statements of a misleading nature were frequently circulated as to the necessary training and the prospects for qualified women in pharmacy. Our notice has been called to an article by Miss Margaret E. Buchanan, Ph.C., in "The Fingerpost" of a recent date on "Pharmacy Training and Prospects for Women," in which the necessary training is outlined, and information given as to apprenticeship, examinations, and prospects for qualified women. Miss Buchanan will be pleased to send a copy of the article referred to in pamphlet form to anyone applying to Gordon Hall, Gordon Square, London, W.C.

The War and Drugs.—Messrs. Evans Sons Lescher & Webb, Ltd., London and Liverpool, have issued a circular to their customers giving a concise explanation of the various causes accounting for the advance in prices of Continental drugs and chemicals, in the course of which they state:

"Having command of the sea and an abundant coal supply for our factories, the present state of things will gradually improve, whether peace comes soon or not. Therefore, while we have had to fill orders for some articles very sparingly, so as to ensure our stocks being distributed equitably, at the same time our customers will benefit by not having heavy stocks at the present abnormal prices when they again become normal. . . . The Government, very properly wishing to make sure that there will be a sufficient supply of medicines and appliances for the sick and wounded, has prohibited for the moment the exportation of a large number of both of these; and this, while very seriously hampering our business and inconveniencing the Dominions beyond the seas, has had the effect of checking the demand and thus keeping prices down (as to some extent with quinine)."

The company remind their friends who have contracted to supply local institutions and others at fixed prices that *force majeure* is applicable in respect of all articles which come exclusively from a country with which we are at war or a country which is in a state of war.

Powder Paper and Books.—Messrs. Lorimer-Marshall, Ltd., manufacturing chemists and perfumers, 12 Tower Hill, London, E.C., call special attention to the fact that the powder booklets which they supply are British made throughout. This is of interest at the present time, when the impression exists that such articles are chiefly made on the Continent. Messrs. Lorimer-Marshall, Ltd., have afforded us an opportunity of inspecting the various kinds of powder books which they manufacture. These show that every taste and class of trade has been catered for. Some of the booklets are fitted with small mirrors, and others are provided with implements for manicure. The edges of the books are treated in various ways, the better qualities being gilt. The covers also are in different colours, with gold blocking. We are informed that Messrs. Lorimer-Marshall, Ltd., have for some years done an increasing Continental trade with these goods, and particularly with Paris, this being due to the artistic way in which the books are produced.

Patriotic Posters of attractive design, which are certain to arrest attention at the present time, have been

issued by Messrs. Arthur H. Cox & Co., Ltd., Brighton. Each poster bears a Union Jack, in colours, and enjoins the reader to buy only British-made medicines. There are three distinct posters, each measuring 12½ in. by 10 in. We reproduce one of them. Customers are invited to apply to the above address for copies of these.

GAZETTE.

Partnerships Dissolved.

Galloway, A. F., and Fergusson, D., Amhurst Park and West Green Road, Tottenham, medical practitioners, under the style of Galloway & Fergusson.

Jessnitzer, O. K., and Rampon, C., Deptford Green, under the style of Dufrais & Co., vinegar-distillers.

Ziegele, Alfred, Ziegele, Otto, and Pfundt, Rudolf, Dunster House, Mincing Lane, London, E.C., under the style of Ziegele, Schneidt & Co.

Bankruptcy Acts.

Receiving Order.

Villain, Paul, 14 Effra Road, Brixton, Surrey, analytical chemist.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. and Mrs. T. H. Wardleworth and their children return to Montreal by the Allen Line s.s. *Calgary* on Friday, August 28.

Mr. R. V. Gurd, chemist and druggist, Fairchild prizeman, has been appointed Demonstrator in Elt's College, North Finchley, N., as from September 1.

Mr. K. Badr, of Badr's Pharmacy and Chemical Laboratory, Cairo, is now in London, having come from Paris, where he had spent three months in the analytical and bacteriological laboratories for the diploma of the Academy of Medicine, with a view to still further developing these branches of practice in Cairo. Mr. Badr is a graduate of the College of Pharmacy, Beyrout, and has been in business in Cairo for some years. In the course of conversation with him he informed us that German manufacturers imported large quantities of Egyptian cotton, which they returned as cotton-wool, and while he is here Mr. Badr is making inquiries with the object of establishing this industry in Egypt, thus saving freight both ways, and we shall be glad to put anyone interested in communication with him. Trade in Egypt was good up to the outbreak of war, but is now affected by the three months' moratorium which has been established. Mr. Badr considers that the reports of the suggested holy war against England said to be in the German fermentation stage among Mohammedans is laughable.

Mr. Harry Wheildon, the new President of the Pharmaceutical Society of the Transvaal, is a Warwickshire man. He served his apprenticeship with Mr. H. R. Smith, of Dursley, Gloucester, and was afterwards engaged as an assistant at Reading, and with Mr. W. Baxter, of Bromley, Kent. Mr. Wheildon went out to South Africa during the early stages of the Boer War, through which he served. At the cessation of hostilities he entered the employ of Lennon, Ltd., of Johannesburg, with which company he still remains. Besides taking an active part in pharmaceutical matters Mr. Wheildon was one of the founders of the Transvaal Chemists' Athletic Club, of which he was at one time Hon. Secretary and afterwards President.

Mr. H. Wheildon.

Mr. W. E. Hodson.

Mr. W. E. Hodson, who succeeds Mr. W. H. Cross as the Hon. Secretary and Treasurer of the Pharmaceutical Society of the Transvaal, hails from Natal. Like the President of the Society, Mr. Hodson is with Lennon, Ltd., Pritchard Street, Johannesburg, with whom he served his apprenticeship and has remained for the past eight years. He holds the certificate of the Transvaal Pharmacy Board.

Cure of Bilharzia.—Dr. Regins claims to have discovered a successful method of treating this disease by a sequence of intravenous injections. The treatment, which Dr. Regins described to a gathering of European and native medical men at Mex (Egypt), is painless and does not interfere with the daily occupation of the patient.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Committee on Drug-supply.

The National Health Commissioners have invited the President of the Pharmaceutical Society (Mr. E. White), the Vice-President (Mr. E. T. Neathercoat), and the Secretary (Mr. W. J. U. Woolcock), with Mr. C. A. Hill and Mr. J. C. Umney, to act as a Committee to advise the Commissioners regarding the supply and prices of drugs.

[It is understood that the possibility of supplementing the list of medicines enumerated in the special schedule (*C. & D.*, August 22, p. 33) is engaging the serious attention of the Pharmaceutical Society, and representations are being made to the Insurance Commission in regard to certain articles on the Drug Tariff which are directly affected by the war. The gradual return of confidence noted in the *C. & D.* last week is attended by a marked diminution of the speculative buying which accounted for some of the inflation of prices, and it is not thought probable that any considerable addition to the fifteen medicines named in this schedule will be necessary. We understand that the relief offered by the Insurance Commissioners must be rigorously confined to increases in price proved to their satisfaction to be legitimately occasioned by the cutting-off of Continental supplies. This should not be lost sight of by panel chemists, and it would be unwise to imagine that the State will eventually compensate them for losses which may be due to other causes more or less collateral. The exact reference to the above Committee is "to furnish information and advice to the Government in regard to the current prices of drugs, with particular reference to cases in which prices can be shown to be artificially inflated as the result of speculative transactions or the unreasonable withholding of stocks from the market."]

Special Account of Prescriptions.

Form Med. 39, referred to in the Commissioners' letter to Insurance Committees published last week (*C. & D.*, August 22, p. 48), has now been issued, and panel chemists will be required to fill in the necessary particulars with respect to the drugs in the given list (*C. & D.*, August 22, p. 33) as directed in the form. A separate form is required for each drug or chemical, the name of which is to be entered in the spaces provided on both sides of the form. The precise quantity of the drug in question contained in each prescription, and the charge according to Tariff rates for the whole prescription, including any dispensing-fee, are to be entered in the appropriate columns on the back of the form, which is ruled off into three columns each, as shown under:

Price of Whole Prescription at Tariff Rate		Quantity Dispensed of Substance named above		
s.	d.	Grains or Minims	Drachms	Ozs.

Entries are to be made in the order of dates of prescriptions, one line to each entry, and each week's prescriptions are to be ruled off separately. In carrying forward the totals to the subsequent columns care must be taken to carry forward the totals in grains or drachms as the case may be. Special attention is drawn to this point on the form itself. The prescriptions are to be annexed to the form on which they are scheduled in the order of their entry, and sent to the Insurance Committee together with the ordinary accounts for drugs.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Barrow-in-Furness.—Mr. F. J. Sansom, Ph.C., Barrow-in-Furness, has been elected Chairman of the Medical Benefit Sub-Committee for the ensuing year.

Birkenhead.—At a meeting of the Insurance Committee on August 20, the Clerk reported that he had issued cheques for the quarter ended July 11—viz., practitioners, 2,983*l.* 11*s.* 2*d.*; and chemists, 875*l.* 3*s.* 11*d.* Mr. G. F. Lunt, 81 Woodchurch Road, was put on the list of chemists in place of Mr. W. Clowes. A letter was read from the Panel Committee about the application of the Pharmaceutical Committee for a grant of ⅛*d.* per insured person per annum for administrative purposes, stating that the Panel Committee, having already instituted a voluntary levy for their administrative expenditure, could not accede to the request made by the Pharmaceutical Committee. It was resolved that the Pharmaceutical Committee be so informed.

Burnley.—At a meeting of the Insurance Committee on August 25, the chemists' accounts were passed for payment, this being the first time the Committee have been able to pay 100 per cent. It was resolved that a copy of the letter addressed to the local Pharmaceutical Committee by the Secretary of the Pharmaceutical Society should be sent to each panel practitioner, with a request that certain drugs should be prescribed for insured persons only in cases of absolute necessity.

Burton-on-Trent.—The Insurance Committee have decided to engage a competent person to check chemists' accounts.

Canterbury.—The Insurance Committee on August 18 passed payments to chemists of 82.5 per cent. of the amounts of their accounts for the quarter ended July 11, 1914, and of a further sum on account for 1913 equal to two-thirds of the balance of the credit. It was intimated that the Commissioners had no objection to the prescriptions for 1913 being submitted to the Pharmaceutical Society for analysis, and the Secretary of the Pharmaceutical Committee was asked to arrange that the analysis should be carried out as early as possible. The Chairman mentioned that he had received a reply to his letter to the Commissioners (*C. & D.*, August 8, p. 55), pointing out that if the agreements with the chemists were carried out there could be no question as to the payments made by the Committee, and suggesting a conference between the Panel and Pharmaceutical Committees to go into the matter and ascertain if possible the causes of the deficit.

Chesterfield.—A meeting of the Chesterfield Chemists' Association was held on August 21 at the Hôtel Portland. Mr. T. E. Furness (Vice-President) was in the chair, and there were also present Messrs. S. C. Greaves, Denwood, Houston, Wright, Dent, and J. H. Toplis (Hon. Secretary). The meeting discussed the question of prices affected by the war, and a list of revised retail prices was drawn up to take effect at once. The question of Insurance dispensing was also considered. Mr. S. C. Greaves (the Treasurer) was congratulated on his marriage.

Eastbourne.—A meeting of the Eastbourne Pharmacists' Association was held on August 24 to consider the list of drugs selected by the National Health Insurance Commissioners for increased prices. The form was considered satisfactory so long as only one substance enters into the prescription, but in event of two or more it was thought that the wording should read "name of substances," and that the name be written on the top of each column. The list was considered satisfactory, as provision was made to add to it if necessary. Spirit-duty was discussed, and it was decided to send a letter to the Chancellor of the Exchequer and others urging the desirability of removing the duty to enable manufacturers to produce the many synthetic chemicals advantageously. Members agreed to bring to the next meeting a list of articles for which they had paid enhanced prices.

East Suffolk.—At a meeting of the Insurance Committee on August 25, the Clerk reported that, in consequence of the increased cost of drugs, the Commissioners had scheduled fifteen items on which increased charges would be allowed, and others would be added from time to time. After discussion, the Clerk was instructed to call the attention of the Commissioners to the fact that no provision had been made in the case of dispensing doctors.

Kesteven (Lincs).—At a meeting of the Insurance Committee on August 22, it was announced that the funds were sufficient to meet all chemists' accounts, and the following payments to chemists were passed: In respect of the year ended January 11, 1914, 42*l.* 12*s.*; and on account of amount due in respect of the current year, 78*l.* 15*s.* It was decided to pay any extra charges on the Drug Fund in consequence of the war.

Liverpool.—The Pharmaceutical Committee met on August 24. A letter from the Commissioners was read regarding the additional payments for certain drugs, and the following resolution was passed:

"While this Committee realises that the list of drugs scheduled for which increased payments will be made will be of great assistance, it considers that, as many other chemicals have already

advanced considerably in price by reason of the war, it is very desirable that the list be extended as soon as possible."

The Chairman, in his report of the work of the Insurance Committee during 1913-14, states that there are now 219 doctors and 144 chemists on the panels.

Sheffield.—The meeting arranged between the Insurance, Panel, and Pharmaceutical Sub-Committees to discuss the situation brought about by the increased cost of drugs has been postponed. The Secretary of the Pharmaceutical Committee has issued to panel chemists a postcard calling attention to the Commissioners' letter published last week, and asking panel chemists to deal as there suggested with prescriptions containing the drugs mentioned from August 24 until the arrival of the special forms.

Shrewsbury.—A meeting of the Shropshire Pharmaceutical Association was held at 70 Mardol, Shrewsbury, on August 20, the President (Mr. W. Gowen Cross) presiding. There were seven other members present and the Hon. Secretary (Mr. W. Gowen Cross, jun.). The President announced that the new Pharmaceutical Committee would hold its first meeting on August 27. It was agreed to communicate with the Salop Insurance Committee as to the scarcity and prices of certain drugs. It was also resolved to call the attention of the panel chemists of Shropshire to the delay of some chemists in sending in their quarterly accounts, whereby payment has had to be postponed. Each member is asked to send in his account not later than a week after receiving the form.

West Hartlepool.—A meeting of the Pharmaceutical Committee was held on August 18, Alderman T. Clarkson presiding. The Secretary reported that cheques for the quarter ended July 11 had been issued, the accounts being subject to a discount of 20 per cent. It was therefore decided that the Committee should at once undertake the investigation of the prescriptions for the quarter ended July 11.

Wolverhampton.—An application by the Pharmaceutical Committee for administrative expenses came before the Insurance Committee on August 21. It was reported that the Panel Committee had met their expenses by a voluntary levy, and, so far, they had not consented to the chemists' request being granted. The matter was referred to the Panel Committee for further consideration.

SCOTLAND.

Aberdeenshire.—As a result of a conference held in July between representatives of the County and Burgh Insurance Committees, the Medical Benefit Sub-Committee recommended to the Insurance Committee on August 21 that Mr. Johnston, the official checker to the Burgh Insurance Committee, be appointed to check chemists' accounts and prescriptions for the County Committee. The Clerk reported that the Commissioners had withheld their consent to such an appointment until they had considered a general scheme for checking prescriptions. The Clerk was instructed to ask the Commissioners for approval of Mr. Johnston's appointment temporarily. The Chairman intimated that the 9*s.* per head had not been received in full from the Commissioners. The dispensing doctors had received a fraction over 9*s.* per head for 1913 for each suspense slip, and the non-dispensing doctors 7*s.* 4*d.* per head. There was a balance of 20*l.* in the Drug Fund to carry over to 1914.

Kirkcaldy.—At a meeting of the Insurance Committee on August 21, the Clerk reported that the chemists' accounts for the six months to July 11 amounted to 736*l.*, while the estimated income was 625*l.*, and, unless there is a considerable decrease during the current half-year, the chemists will lose something like 15 per cent. A local deputation had met the Commissioners at Edinburgh, and the latter suggested that they should do something to limit the use of proprietary medicines. Chemists and doctors are considering this. It would appear that over the whole year (July 1913 to July 1914) the average had been four prescriptions per insured person, against the Government estimate of three. The matter was remitted to the Medical Benefit Sub-Committee.

WALES.

Cardiff.—A meeting of the Cardiff Pharmaceutical Committee was held at the Angel Hotel on August 24, Mr. A. Hagon in the chair. There were six present and the Secretary (Mr. S. B. Eason). Mr. A. E. Gray (Boots, Ltd.) was elected a member of the Pharmaceutical Committee. Mr. Hagon, who was appointed on the Cardiff Insurance Committee for the term of three years, having resigned his position on that Committee, Mr. J. A. Jones was nominated to fill the vacancy. The Clerk has circularised chemists, asking them to economise in the dispensing of drugs, and the Secretary was instructed to write and point out to the Insurance Committee that economy in drugs does not rest with the chemists, who have to supply exactly what is ordered by the medical practitioner.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., August 27, 6.30 p.m.

THERE is no tangible alteration to report in market conditions, which substantially remain as last week, and while the war lasts Mincing Lane merchants, dealers, and brokers will devote themselves to conserving their own interests and straightening out the position. In these circumstances business is difficult to negotiate, and a good deal of uncertainty prevails—*e.g.*, the fact that the Government has complete control of the sugar-market and several items of produce, and fixes prices, is an instance of how matters stand. The bulk of business done generally appears to be for cash or very short credit, but in one or two instances brokers can be found willing to give the old terms. The banks are, however, granting better facilities for credit, but there is much leeway to make up in restoring the normal working of the discount market. The announcement of the Chancellor that bankers are to be assisted by State credit will, it is hoped, help to remove the dislocation. A very fair number of buying orders and inquiries have been received from the United States, where prices of many items have advanced in sympathy with London, as everybody was working on short stocks. Apart from this, the export drug-trade to overseas Dominions and foreign countries is, of course, at a standstill owing to Government prohibition, but this may only be temporary when supplies have been assured for home purposes. The advance in prices of German-made chemicals is now less violent, but the absence of any fixed prices and the diminished stock render business of the smallest dimensions. Retailers can assist by reducing their requirements to absolute necessities. Some will go out of use, and substitutes will be found for others. Several of the agents for German specialities and proprietary chemicals have fixed prices for the remainder of their stocks. Many of the undermentioned prices vary from day to day, but on the whole they form an approximate guide as to what is being done and what the pretensions of sellers are. Naturally holders take full advantage of an abnormal situation.

Cablegram.

New York, August 27.—Business in drugs is moderate. Opium is 50c. dearer at $9.50. Peppermint oil in tins is 10c. easier at $2.50. Menthol steady at $4.50. Ipecacuanha is higher, at $2.00 for Cartagena. Guarana is also higher at $4.25, and Curaçao aloes have also been advanced to 14c. Senega is cheaper at 45c.

London Markets.

Acetic Acid.—Fair arrivals have taken place from Holland. Glacial 98 to 100 per cent. B.P. is offered in carboys at 45*l.* to 50*l.* per ton; commercial 80-per-cent. has been sold at from 35*l.* to 40*l.*

Aceto-salicylic Acid is quoted at from 7*s.* to 8*s.* per lb., according to sellers' idea of value; the lowest price is an advance of 6*d.* on last week's lowest.

Acid, Gallic.—From 3*s.* 6*d.* to 4*s.* represents the values, and 4*s.* 6*d.* to 5*s.* for *tannic* from agents' sources.

Aconite.—The value of Japanese, of which a fair supply is available, is about 36*s.* per cwt. A small quantity of Spanish may be offered later.

Alcohol.—The British spirit-market remains firm, but it is unlikely that there will be any change. With export trade practically at a standstill, the demand is, of course, smaller. At the beginning of the war there was some talk of prohibiting the manufacture of spirit from grain, but it has since become apparent that the food-supplies of this country are well assured, so that normal conditions prevail.

Almond Oil.—The English pressers' quotation is now 2*s.* 9*d.* per lb. for sweet B.P.

Aloes.—Business has been done in Curaçao aloes at up to 50*s*. per cwt. spot, and more money is now asked. New York arrivals from Curaçao early this month comprised 574 packages. Fair bright Bombay, in kegs, can be had at 50*s*. spot, and of Socotrine, in skins, we note the arrival of ten cases.

American Drugs, with few exceptions, show an advance, owing to the temporary cessation of supplies due to war conditions. Business includes slippery-elm bark at 5¼*d*. to 5½*d*., wahoo bark of root 1*s*. 9*d*., gelsemium-root 3¼*d*., podophyllum-root at 55*s*. per cwt., and lobelia herb 4¾*d*. per lb., all net on spot. Golden-seal is offered at 21*s*. net, and senega to come forward at 2*s*. net c.i.f., the spot value being about 2*s*. 6*d*. Cascara sagrada is unchanged, with prices in buyers' favour.

Anise Oil (Star).—Towards the close of last week prices suddenly advanced by 6*d*. per lb., owing to the fact that there are no arrivals from China. Red ship brand has been sold at 6*s*. to 6*s*. 4*d*. per lb., closing at the higher price.

Balsams.—Hamburg competition being eliminated, genuine B.P. *Peru* balsam is firm at 8*s*. per lb. *Copaiba* is unaltered at 1*s*. 10*d*., and *Tolu* at 2*s*. 3*d*.

Belladonna-root.—Business has been done in quite limited quantities up to 150*s*. per cwt.

Bergamot Oil.—The spot value of 38-per-cent. esters guaranteed is 27*s*. 6*d*.

Bromides.—The British makers' price remains fixed at 4*s*. for the three salts, but they dole out small quantities only to regular customers. They are inundated with orders, which remain unexecuted. In the "open" market prices are wide, and range from 5*s*. to 8*s*. per lb. for potassium, according to varying circumstances.

Buchu is unaltered, at from 5*s*. 6*d*. to 6*s*. for round, according to colour, and ovals are about 2*s*. 6*d*.

Burdock.—The value of cut is about 50*s*. to 52*s*. 6*d*. per cwt.

Camphor (Refined).—The English refiners have advanced their prices by 2*d*. per lb., quoting bells at 2*s*. 3*d*. and flowers at 2*s*. 2*d*.; 5-cwt. lots are 2*d*. and 1-cwt. lots 1*d*. per lb. less. Tablets are proportionately higher, and all prices are without engagement. Further business has been done in Japanese tablets at from 2*s*. to 2*s*. 4*d*.; for 2½-lb. slabs 1*s*. 10*d*. to 2*s*. has been paid, with 2*s*. 4*d*. asked at the close. The chief demand has been for U.S.A., and they are further buyers. The exports from Japan during the five months ending May were as follows:

	1912	1913	1914
Kin	1,383,000	1,131,000	1,160,000
Yen	1,262,000	1,047,000	1,037,000

Cassia Oil is steady, at 3*s*. 8*d*. spot for 80 to 85 per cent.

Chamomiles.—There has been quite a run on old-crop Belgian flowers, and prices have sharply advanced. Common on the spot have been sold at from 95*s*. to 97*s*. 6*d*., and on Wednesday 120*s*. was quoted. Good white are worth 140*s*. It is, of course, quite problematical as to whether there will be any Belgian crop available this year; the crop was ready about three weeks ago, and no doubt a few were gathered. The chamomile district is in the neighbourhood of Deaxacren, Grammont, and Ath, all within the war area.

Chloral Hydrate.—With diminishing supplies, which cannot be replaced for the time being, sellers ask various prices. In one quarter 8*s*. 6*d*. per lb., duty paid, jars free, is quoted, but some ask more.

Chloralamide.—The agents' prices are 1*s*. 9*d*. per oz. net for small quantities, and 1*s*. 6*d*. net per oz. in 16-oz. lots for prompt cash only.

Citric Acid remains unaltered at 3*s*. 7*d*. to 3*s*. 9*d*. *Tartaric acid* also unaltered, at 1*s*. 9*d*. for English and 1*s*. 9*d*. for foreign.

Citronella Oil.—The spot price of Ceylon in drums is about 2*s*. per lb.

Clove Oil.—Spot holders are asking 4*s*. 3*d*. to 4*s*. 5*d*. as to quantity—an advance of 3*d*.

Cloves.—Owing to the financial conditions, only a few parcels can be dealt with. Values are dearer, with sellers of fair Zanzibar at 7*d*.

Cocaine.—With the elimination of German, buyers have to turn to other makers; values of hydrochloride are from 10*s*. to 11*s*. per oz.

Cod-liver Oil.—Steamship services between Norway and Hull have now been resumed, and we note some small imports. The values are nominal at about 90*s*. to 95*s*. per barrel, these prices including the much higher freights and war-risk insurance.

Coumarin in small lots is offered at 20*s*. per lb. All the cheap parcels have been cleared up.

Cream of Tartar.—Business has been done at 195*s*. per cwt., the closing quotation being 200*s*.

Dextrin remains at 20*s*., and farina at 17*s*. to 17*s*. 6*d*., ex wharf, London.

Dragon's-blood.—A fair business has been done within the past fortnight to the U.S.A., the sales including reboiled lump at 20*l*., pickings at 9*l*., seedy lump at 7*l*. to 7*l*. 10*s*., and dull slab at 6*l*. per cwt.

Ergot.—The *Arlanza* from Vigo has brought 87 packages. They are probably *in tr.* for U.S.A. The spot value is 5*s*.; for old crop in Spain 5*s*. 9*d*. is asked, but there are practically no offers.

Eucaine Beta.—The agents' price is 12*s*. 6*d*. per oz. net for prompt cash only.

Eucalyptus Oil remains unaltered, with sellers at 1*s*. 4*d*. per lb.

Formaldehyde is almost unobtainable, the value being about 150*s*. per cwt.

Gentian.—From 45*s*. to 50*s*. represents the spot values.

Glycerin.—The British refiners' price has been advanced by 5*l*. per ton for chemically pure, the quotation now being 104*l*. per ton for double-distilled, s.g. 1.260 quality, in tins and cases on 5-ton contracts, drums being 4*l*. less. We prepared our readers for this advance in our issue of August 15 (p. 49).

Glycerophosphates previous to the war were selling at slightly below the makers' scheduled prices, but they are now worth more than the fullest scale prices.

Gum Acacia.—For Sudan sorts 45*s*. has been paid, being the cheapest available on spot.

Honey.—The asking prices of Jamaica since the war show an advance of about 10*s*. per cwt., about 30*s*. being asked for dark liquid.

Hydroquinone is practically unobtainable, there being eager buyers at 15*s*. and over.

Indigo.—Since the stoppage of supplies of synthetic more attention has been paid to the natural for export. Fair Bengal, which before the war was worth about 4*s*. per lb., has been selling at about 5*s*. 9*d*. for fair, up to 6*s*. 6*d*. for good, and up to 2*s*. 10*d*. for Madras. London stocks are very small.

Iodol.—The agents' prices are 4*s*. 3*d*. per oz. in single-ounce lots, and 56*s*. per lb. net in 16-oz. lots for prompt cash only.

Ipecacuanha.—The value of Matto Grosso is from 8*s*. 6*d*. to 8*s*. 9*d*. per lb.

Lemon Oil extremely slow, with spot sellers at from 10*s*. 6*d*. to 11*s*. per lb.

Menthol.—Spot sellers of Kobayashi quote 11*s*. 6*d*. and 11*s*. 3*d*. for Suzuki. Business has revived somewhat, principally for export to U.S.A.

Milk-sugar has sellers at from 95*s*. to 100*s*. per cwt. Supplies from Holland are a doubtful proposition for the present.

Oils (Fixed).—*Linseed* (official prices), spot 26*s*., barrels 26*s*. 6*d*., (naked) 25*s*. 4½*d*. Ceylon *Coconut* (hhds.) 50*s*., and to arrive 48*s*. 6*d*., being 1*s*. 6*d*. to 2*s*. cheaper; London pressed 43*s*. *Soya*, Manchurian (cases), arrived London, 26*s*. *Cottonseed* nominal at 31*s*. spot for pale refined in pipes, and 37*s*. for sweet refined in barrels. *Turpentine* unaltered on the week at 34*s*. Japan *Fish* oil 17*s*. 6*d*. in cases on spot, and *Lard* oil 40*s*. to 56*s*., the latter for best English.

Opium.—A Smyrna correspondent writes on August 7 that, owing to the war, all our banks have closed their doors, declaring a moratorium; consequently no business in opium, as well as in all other articles, has taken place. Quotations are nominally the same as last week—viz., 16*s*. to 19*s*., as to quality, for eligible material. The arrivals in Smyrna are 1,100 cases, against 2,124 at same date last year.

Paraldehyde.—The value is about 8*s*. per lb.

Peppermint Oil.—A dead letter. The value of August-September shipment is about 10*s*. to 11*s*. and the spot value of best American brands 14*s*. per lb. H.G.H. is in slight inquiry, with prompt shipment offering at 18*s*., and autumn shipment onwards 15*s*.

Phenacetin shows an advance of 6*d*. to 1*s*. on last week's prices, 5*s*. 6*d*. having been paid, with 6*s*. to 6*s*. 6*d*. asked.

Phenazone.—Although sellers in several instances ask 10*s*. to 11*s*., a cheaper source, while it lasts, names 8*s*.

Phenolphthalein can be had at from 9*s*. to 9*s*. 3*d*. per lb.

Piperazine.—The agents' prices are 9*s*. 6*d*. per oz. net in small quantities, and 9*s*. per oz. net in 16-oz. lots for prompt cash only.

Potassium Salts.—*Permanganate* is practically unobtainable, and those who have a few kegs are asking fancy prices.

Caustic potash is quoted at 60*l.* for 88 to 90 per cent., and in *Carbonate* 50*l.* is reported to have been paid for 90 to 92 per cent.

Quinine.—Although the leading bark and quinine interests in this country have made a request that the embargo on the exports of quinine and pharmaceutical bark should be removed, owing to the fact that the present London stocks (over 3,000,000 oz.) are ample to meet British requirements, no reply had been received from the authorities up to Wednesday. Applications to export are, however, being granted under "permit," and this week we understand that orders for quinine preparations (tablets, pills, etc.) have been executed for the Colonies, each application being separately considered. Second-hand sellers in London of the usual brands of German sulphate in bulk quote 1*s.* 2½*d.* per oz.

The exports of "quinine, quinine salts and combinations" from Germany during the six months ended June were:

	1912	1913	1914
Kilos	114,900	107,500	105,800
Marks ...	2,789,000	2,938,000	3,822,000

Saccharin.—There has been extreme difficulty in getting supplies, makers having been inundated with orders. The value of the 550 is about 45*s.* to 50*s.* per lb., and the 330 about 3*s.* less.

Saffron.—It is difficult to say when fresh supplies will reach this market, so that holders feel justified in asking higher prices for their small stocks; from 50*s.* to 55*s.* per lb. is quoted.

Salicin.—British makers quote from 15*s.* to 15*s.* 6*d.* net as to quantity.

Sandarac.—Business has been done up to 88*s.* on spot.

Sarsaparilla.—Very fair stocks exist of grey Jamaica, Lima, and red native. Demand is small.

Senna.—The current value of Alexandrian three-quarter leaf is 1*s.* 3*d.*, half-leaf 1*s.* to 1*s.* 1*d.*, and siftings 5½*d.* per lb.

Shellac.—There is practically no market at the moment beyond retail sales at from 58*s.* to 59*s.* spot for usual TN quality.

Soda Hyposulphite can be had in limited quantities—in one quarter at 25*l.* per ton for small crystals in kegs, and business has been done at the price.

Soda Salicylate.—Business has been done in the physiologically pure at 5*s.* to 5*s.* 6*d.*, and the pure and white at 4*s.* 3*d.* to 4*s.* 9*d.* per lb.

Soda Salts.—*Cyanide* is quoted 8¾*d.* to 9*d.* per lb. for 128 to 130 per cent. k.c.n. *Nitrate* is 10*s.* 6*d.* for ordinary and 11*s.* for refined; Liverpool 11*s.* and 11*s.* 3*d.* respectively. *Soda Crystals* 45*s.* net in barrels, and 42*s.* 6*d.* net in bags.

Spices.—The spot prices of *Pepper* are: Fair black Singapore, 5⅞*d.*; Tellicherry, 5⅛*d.*; Lampong, 4⅞*d.*; white Singapore, 8¾*d.*; Muntok, 9⅜*d.* *Chillies* are dearer. Mombasa have been sold up to about 75*s.*, and 85*s.* is quoted for Japanese.

Strychnine.—The elimination of German and American competition keeps British prices firm at from 2*s.* 3*d.* to 2*s.* 6*d.* per oz. for the alkaloid.

Taraxacum.—The value of ordinary foreign cut is nominal at about 110*s.*

Thymol.—For the quite retail lots on offer holders ask excessive prices, which nobody feels inclined to pay. Its use in antiseptic mouth and throat washes is therefore out of the question, and makers will be compelled to adopt a cheaper product, such as eucalyptol. With the past two or three years a large demand has sprung up for thymol in the treatment of ankylostomiasis (miner's worm), a disease practically confined to the tropics.

Urotropine.—The agents' prices are 2*s.* 6*d.* per oz. in small quantities, 2*s.* 3*d.* in 16-oz. lots, 2*s.* 0½*d.* in 25-oz. lots, and 2*s.* in 50-oz. lots—all net and for prompt cash only.

Wormseed Oil.—A fair quantity of American is available on the spot at 7*s.* per lb.

Holland Removes Quinine Embargo.

Our Amsterdam correspondent informs us, under date of August 24 (received August 27), that the embargo on the exports from Holland of quinine sulphate and other quinine salts, cinchona alkaloids, nitric and sulphuric acids, sodium and potassium salts, alcohol, antimony, and ammonium carbonate have been provisionally removed.

Crude-drugs Arrivals.

The arrivals of drugs at the Cutler Street warehouse since the last auction on July 23 comprise 36 packages grey Jamaica sarsaparilla, 4 Lima, and 31 red Native. Also 45 packages Johore ipecacuanha, 12 Matto Grosso, and 3 Cartagena; 25 cases Siam benzoin and 40 cases Sumatra; 21 cases lump dragon's-blood, 10 cases Siam gamboge, 28 bales myrrh, and 10 cases aloes in skins.

War-risks and Shipping.

War-risk insurance quotations have hardened during the past week at between 50*s.* and 60*s.*, and for cargo across the North Atlantic the bulk of the business has been accepted between 40*s.* and 45*s.* per cent., according to ship. The Government Underwriting Office is still charging three guineas per cent., and this is sufficient evidence of the calmness which exists in official circles regarding the safety of the main ocean routes. Eight leading shipping lines in the South and East African trades give notice that the surcharge on freight of 33⅓ per cent. due to the war is to be reduced to 25 per cent. until further notice. The Union-Castle Mail S.S. Co. state that their Royal Mail vessels will shortly resume loading at Southampton.

Bromides.

We announced last week that the British makers of bromides had fixed the price of potassium, sodium, and ammonium bromide at 4*s.* per lb. net in 1-cwt. lots, and on Thursday, August 20, they issued a circular, in the course of which they say:

"Immediately upon the outbreak of war we took steps to deal with the inevitable shortage of bromides which must arise temporarily through the sudden stoppage of supplies of bromine from Germany. Until our fresh arrangements can be got to work smoothly customers are urged to restrict their purchases to urgent requirements, and in no case to encourage panic prices by buying for speculative purposes."

It is, of course, understood that this quotation of 4*s.* net is the price at which makers will supply their regular wholesale customers, and, so far as we are aware, the price will not be advanced beyond this while the stock lasts. In the open market, however, much higher rates have prevailed, but it is reassuring to know that a decided stand has been made by the makers, and that their action has met with general approval. This policy is the best preventive of panic prices, and all buyers can assist by purchasing only for absolutely necessary requirements.

Linseed Oil.

Market conditions in linseed oil, as in most other commodities in which international trading is of an extended character, have, of course, been greatly upset by the war, so much so that speculation was brought to a complete standstill last week. There is naturally some uneasiness from a financial point of view, having regard to the forward contracts open here, especially on foreign account, both in raw material and in the oil product. Whatever trading in oil was transacted in the home trade since the rupture with Germany has been almost entirely of a legitimate character, and chiefly confined to actual oil in private warehouses or for near delivery, for which values have been on the whole well held, in spite of the huge fluctuations in the American and Argentine linseed option-markets, which at one time last week showed a fall equal to as much as 10*s.* per quarter. Spot oil on this side, indeed, held up remarkably well near 26*l.* per ton. There is no doubt that European consumption will suffer severely. On the other hand, prices stand at a comparatively low level, and the question of prospective supplies of raw material is the subject of considerable uncertainty. Towards the end of July the market has been notably strengthened by the prospect of a considerable deficit of supplies in North America through much reduced crops, which has had its reaction in keen American buying of seed and oil on this side for early shipment. This deficit must be regarded as an important factor, apart from the cutting-off of seed supplies from Russia. According to the latest official returns, the deficit in the Canadian linseed area amounted to 25 per cent. against the previous season, and to 50 per cent. compared with two years ago, so that the total deficit in the Canadian and American crops combined is much larger than was generally estimated some time back, considering that the decrease in the American crop-yield amounts to nearly 16 per cent. against last season. As regards Russia, her last year's crop yielded about 550,000 tons, or not much less than the unprecedentedly high "record" reached in 1912. Her total exports for the first seven months of this year were, roughly, 415,000 quarters, against 170,000 quarters for the same period last year. These exports had recently a subduing effect on the market, but they came to an end last week. The total shipments from Russia and the Black Sea for last year were 85,557 tons, against 172,061 tons in 1912, 126,817 tons in 1911, and 143,932 tons in 1910. The total shipped last year from India was 366,280 tons, from the River Plate 1,031,509 tons, and from America 366,173 tons.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

The Moratorium and Chemical Enterprise.

Sir,—Much is at present being heard about the opportunity for English manufacturers to develop their trade, especially chemical, under the extremely favourable conditions obtainable by those who can manufacture products which have been largely imported from Germany. In one case directly under the writer's notice an opportunity has arisen to manufacture, with extraordinary profits and with practically no risk, and under unusual circumstances for immediately turning out the finished product, a chemical which is now easily saleable at an abnormally high price, while the cost of the raw material has not increased, as it comes from neutral countries. The effect of the moratorium has been in this instance to make it quite impossible to obtain the money to purchase the raw material.

Yours, etc., Kappa. (67/46.)

Trade-marks.

Sir,—Now that the Patents Act as applied to German synthetic preparations is temporarily suspended and a new edition of the B.P. is in course of preparation, it seems an opportune moment to make such names as aspirin, urotropine, etc., official synonyms, so that when any of these patents are ordered in prescriptions, the preparation of the same chemical constitution made in this country may be legitimately used—*i.e.*, acid. acetylsalicylic. for aspirin, and hexamethylene-tetramine for urotropine. The monopoly in these and the whole series of German synthetic preparations patented in this country would be thus permanently destroyed.

Yours faithfully,

Tredegar. W. J. Price.

[Until these articles are actually made in this country, and the makers apply in the official manner for permission to use the trade-marks, the use of the latter is retained for the persons who have registered them. Such use, in any case, would stop six months after the war stops. See p. 41. The compilers of the British Pharmacopœia cannot appropriate trade-marks as suggested.—Editor *C. & D.*]

Pharmacists and Military Service.

Sir,—With regard to pharmacists and the R.A.M.C., it is certainly the duty of the Pharmaceutical Society at some future date to take action in the remedying of the gross insult to pharmacy occasioned by military authorities in their classification of qualified dispensers. The time, however, for this has not arrived, and any interference at present would be extremely unpatriotic and very much in the wrong. Let us in the meantime quit ourselves like pharmacists, and do our level best to assist the nation in her time of need. Many of us can offer spare-time service to the various institutions which have been turned into temporary hospitals, should the occasion arise for ministering unto the sick and wounded. Our example would thus demonstrate to the military and naval authorities that we are not "standing easy," and that we are a "corps" to be reckoned with. In the future let chemists urge their apprentices to take lessons in first-aid and ambulance work. It will be a considerable adjunct to them in business, and the mere fact of their holding the necessary certificates in both will carry weight should they enter the R.A.M.C. After "The Great War" is over let us as pharmacists agitate for a proper military status. If pharmacists on the Continent rank as officers, why not we in this country?

Gosforth. J. Elder.

The Toast at the B.P.C. Dinner at Chester.

Sir,—Mr. Finnemore approached me at the opening of the Conference and asked me if I would respond to the toast of the "Overseas Visitors," and I replied that, being a lesser light and not representing the Pharmaceutical Society of Australia officially, I would prefer to be excused, and there the matter ended. "Xrayser II." says (*C. & D.*, August 8) that Dr. McWalter sometimes hits the nail on the head, and I am sorry to disturb the doctor's happiness in making this nail a crooked one. I should like, with your permission, to express my thanks to those chemists at Chester from whom I received much thoughtful attention as a visitor, and also to compliment the local committee for the very complete arrangements that were so successfully carried out. It was a most enjoyable experience, both educationally and socially, and I was "very, very pleased."

Yours truly,

S.s. *Nestor*, Las Palmas, J. A. Walker.
August 15.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Ung. Ceræ, Bristol R.I.

T. E. C. (57/50) would be glad to have the formula for above as used about forty years ago.

Keeping Postal Orders.

A plan for keeping postal orders, which have come so much into daily use, is to fold them up separately and insert in powder or seed envelopes and mark the value on the outside. A correspondent who sends this includes two specimens with 7/6 and 15/- printed on them with rubber type.

Foot-relief for Men at the Front.

A South Country Chemist (70/47), noticing that our soldiers on the Continent are suffering in their feet through much marching, remarks: "Most of us make a foot-powder. I would be willing to send a dozen tins to the front (name and address label removed, so that it would form no advertisement), and doubtless other chemists would do the same if you should think it advisable and could suggest where to send the parcel."

[The Red Cross Society, 9 Victoria Street, London, S.W., is the headquarters to address in regard to this matter. It is advisable not to send goods without authority.—Editor *C. & D.*]

Making Fine Chemicals.

Mr. Edwin J. Tookey (Nottingham), writing in regard to our article on this subject (*C. & D.*, August 22, p. 46), says: "Now is the time for the British Government to wake up. If this country had duty-free alcohol (under restrictions), we could make all the fine chemicals that are now made in Germany. . . Germany will not be in a position for some time after the war, if ever again, to export these preparations; therefore it is a splendid opportunity to capture her trade, and then England, not Germany, would be the training-ground for the expert chemist. Whatever is done must be done quickly, or the Americans will be before us. Should not a strong committee of the General Medical Council and manufacturing chemists approach the Government?"

Letting off Steam.

Fair Play (69/69) writes in a strongly critical vein regarding Form Med. 39, which has been issued in order to enable panel chemists to get extra payment for drugs which have increased in price. He says: "It amounts to this: they are putting the work out to be done for nothing—work that should be done by their own clerical staff." He concludes: "This Committee cannot enforce by law all this extra work upon you without paying you for it, not even the triple copying of accounts. It is getting the work ready done for them, but it is putting the work on you for nothing. You must resist it one and all, and also insist on being legally represented before you sign the new contract for 1915, or you will become the slaves of the Insurance Act."

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

Peace (69/33).—We think you will have difficulty in persuading a Court that your label is not a colourable imitation of the other.

Bang (68/21).—The question of assistants' engagements was fully discussed in the *C. & D.*, August 15, p. 47. The agreement which you submit to us is not invalidated by the war, and the only way that you can get the contract set aside is by agreement with the other party to it. (2) If you take semi-solid oil, melt it by the direct heat of a fire, and conflagration results, we consider that the clause in your insurance policy ("Preparation of oil by fire heat") will exonerate the insurance company from the damage. Stick to the water-bath and sand-bath mentioned in the policy as regards ointments and chemicals.

H. S. (86/41) ordered some goods "carriage paid." When the goods arrived it was found that the packet had burst, allowing part of the contents to escape. If the carriers successfully resist a claim in respect of the missing goods, is the seller liable for the loss? [We are of opinion that the seller is liable only if the goods were lost in consequence of his having packed them in a negligent manner. As the goods were forwarded carriage paid, the buyer is not responsible for them until complete delivery to him is effected, and he would be justified in refusing to pay the seller for the lost part of the goods.]

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

J. H. L. (50/63).—Oil of Rags.—This is not often asked for now. It was formerly prepared by burning paper or rags on a tin plate and collecting the oil which is condensed on the cold metal. This is a primitive method, and, if you think of making the oil, you will doubtless be able to devise a more efficient way of condensing the empyreumatic vapours. Rag oil was formerly used for diseases of the skin and for falling hair, but seems now relegated to veterinary uses.

H. B. T. (68/37).—Green Carboy-colour.—The following is the most permanent and satisfactory colour: Dissolve 1 lb. of copper sulphate and 3 lb. of common salt in 2 gals. of water, add 20 oz. of commercial hydrochloric acid; mix, and set aside for several days, then decant the clear solution.

J. M. (63/55).—Sources of Chemicals.—There is no small book which gives the information you desire as to the commercial sources of chemicals. It is contained partly in the larger works—*e.g.*, Thorpe's "Dictionary of Applied Chemistry"—and in Consular Reports. In regard to the particular examples to which you refer, we give the details needed. *Iodine* was originally prepared from the ash of seaweed, but the discovery of the Chili nitrate-beds containing iodine has given the nitrate companies the monopoly in this country. About 8,000 cwt. of iodine is produced in Chili by a process which could be worked much more economically if it were not for the fact that there is a glut of iodine in the world. Iodine comes over in 1-cwt. casks, and the sale is controlled by a syndicate, which keeps the price at an artificial level, but sufficiently low to shut out competition from iodine produced in the United Kingdom from kelp. The consequence is that a rise in price to above 9*d.* an ounce will resuscitate the manufacture of iodine in Ireland and Scotland, but this can only be temporary, owing to the powerful weapon of over-supply possessed by the nitrate companies. A large quantity is made in Japan from kelp, and the industry exists also in Northern France. The advantage of the kelp process is that potash salts are obtained at the same time, and so it comes about that potassium iodide reaches this country from Japan. *Bromine* is obtained principally from the residual liquors of the Stassfurt potash-mines, and in smaller quantity in the United States from brine-liquors. The chief districts of production in the United States are Michigan (at St. Charles and Mount Pleasant, where about half the American output is produced, and at St. Louis), Ohio (Pomeroy and Syracuse), West Virginia (Hartford, Mason, and Malden), and Pennsylvania (Pittsburg). Competition between these two sources of supply, and the lowering of prices in consequence, resulted in an international convention for defining market operations, but there are doubts as to whether the convention is now operative. *Potash salts* come chiefly from the German potash-mines—except potassium nitrate—and the almost unlimited supply available has shut out, except for special purposes, the American and Canadian potashes produced from wood. The last-named sources will, however, become available if the present famine of potash lasts. The use of sodium salts, of which this country possesses immense quantities, in preference to potash salts should do something to help matters at present; but questions of hygroscopicity of several much-used salts, established usages and the use in the manufacture of soft soap cannot be overlooked.

R. A. (67/73).—Salicylic Acid is very feebly soluble in liquid paraffin. Even although you succeeded in getting 10 per cent. of it in the paraffin, you would have a very poor remedy for rheumatism, it having been proved that paraffin prevents the absorption of drugs combined with it. Any absorption of salicylic acid when applied to the skin depends upon endosmosis from watery solution, but ionisation of its salts is the more rational method now.

Lancs (46/31).—Perfume for Spraying Cinematograph-theatres.—The approximate composition of this was indicated in the *C. & D.*, June 27, p. 104.

C. H. C. (51/27).—Dry-rot in Houses.—The substances used for destroying and preventing the spread of dry-rot are solution of corrosive sublimate in methylated spirit (6 oz. to 1 gal.), creosote, and carbolic acid. All affected parts of the wood should be removed and burnt, and special attention given to promote proper ventilation of spaces beneath floor-boards. You should obtain (free of cost) Leaflet 113 from the Board of Agriculture and Fisheries, 4 Whitehall Place, London, S.W., which treats of dry-rot in several aspects.

J. H. (30/6).—The sample of grease you send is a white soft paraffin of low melting-point. It could be imitated by mixing liquid paraffin with ordinary white soft paraffin.

C. P. (Orange Free State) (62/8).—(1) Eau de Ciel does not appear to be known in this country. It is probably a local proprietary medicine. (2) Parrish's Syrup.—The calcium phosphate in this syrup is obtained in the British Pharmaceutical Conference recipe by dissolving calcium carbonate in phosphoric acid. The formula and method are given in "Pharmaceutical Formulas."

Dens (64/67).—Dental Anæsthetics.—Refer to *C. & D.*, February 14, p. 60, for information regarding the composition and preparation of local anæsthetics.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," August 15, 1864.

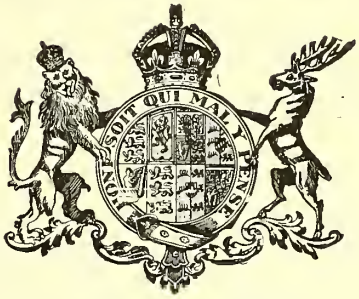
Burning of a Drug Warehouse in Dublin.

During the past month a destructive fire occurred on the premises of Mr. W. F. Wells, druggist, 52 Upper Sackville Street, Dublin. It was discovered by a policeman on duty in Henry Street early in the morning. He observed smoke issuing from the rear of the premises, and on going to the spot he found that the stores, which contained drugs, oils, colours, and other combustible materials, were in flames. The gates were so securely fastened that it was discovered to be impossible to force an entrance. He then went round to the front of the premises in Sackville Street, and after some time succeeded in arousing the inmates, who were connected with the Standard Insurance Office, and occupied the upper part of the house. There were no persons in the employment of Mr. Wells in the house at the time. Intelligence was at once forwarded to the several fire-brigade stations, and several engines were soon on the spot. About thirty minutes elapsed before a sufficient supply of water could be obtained. In the meantime, persons were engaged in removing the property contained in the stores, and putting it in a place of safety. When water was obtained, the several engines played vigorously upon the flames, and succeeded in extinguishing them in the course of four hours. The stores in which the fire originated were completely gutted, and property to a considerable amount was destroyed. The premises were insured. [*N.B.*—This was fifty years ago.]

PEARS

KING GEORGE V.

SOAP MAKERS
BY APPOINTMENT
TO
Their Majesties



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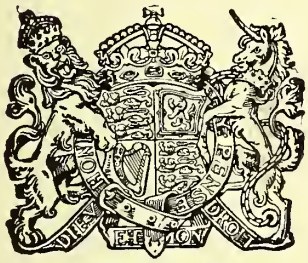
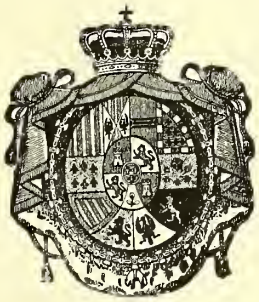


THE LATE
KING EDWARD VII.



KING AND QUEEN
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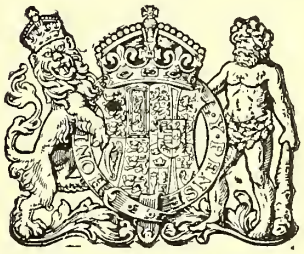
SPAIN.



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This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

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58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

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Professor of Theory and Practice of Pharmacy, Director of the Pharmaceutical Laboratory, New York College of Pharmacy

"The sample of Precipitated Chalk, G. W. N. Brand, which was submitted for my examination, I found to fulfil all the requirements of the United States Pharmacopœia as regards tests of purity. *The sample is remarkably* pure and free from the usual impurities found in Precipitated Chalk. Signed. V. COBLENTZ, Ph.D.

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FOR SKIN DISORDERS,

ECZEMA and PILES.

KNO-SKA (pronounced No-Scar) is an antiseptic and emollient ointment of unequalled value in skin disorders generally, but it is specially efficacious in the treatment of Eczema and Piles. The great merit of Kno-Ska is that it heals skin surfaces quickly, and as the name implies, it leaves *No Scar*. It may safely be applied to the face, arms, legs or other parts of the body affected by Eczema. Kno-Ska speedily removes the milder forms of Piles, and even in obstinate cases, if the treatment is continued, its beneficial effect will be experienced.

In collapsible tubes, in two sizes, 1/1½ and 2/9.

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HEALTH SALINE

In Patent Airtight Tins, which fill from the bottom.

ADVANTAGES:

Bad stock avoided, as Saline can be kept from season to season without deteriorating.

Satisfaction to Consumers.

For export these Tins are indispensable, as Saline can now be shipped without any risk.

X286.

X286 design, 4 oz., **2/9** doz.
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X41P Fruit design, 4 oz. **2/9** doz.
X41/SP ,, ,, (shorter), 3 oz., **2/3** doz.
X356 "St. George & Dragon," 4 oz. **2/9** doz.

Special designs produced for large buyers. Quotations on application.

☛ By selling these tins of Saline you will double your trade.

Ordinary lever lid Tins supplied if wanted.

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In square round-cornered tins with ordinary lever lid, very smart decoration, **2/9** doz.

Saline packed in Cheltenhams; 6 oz., **4/6** doz., 8 oz. **5/6** doz.

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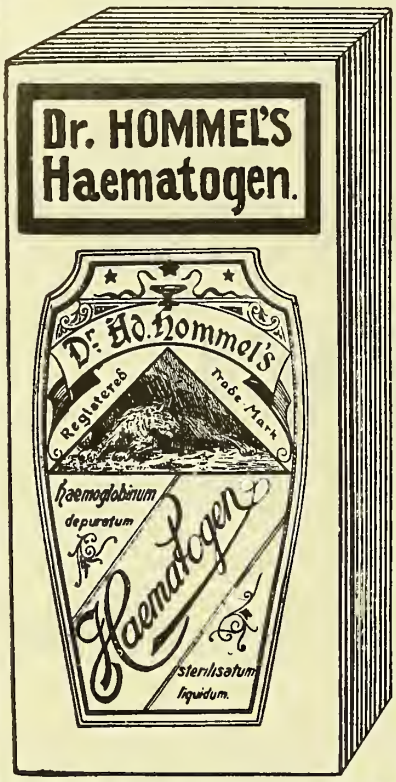

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The only modern up-to-date remedy for

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Two sizes { 40 Tablets, retail 1/1½ ; 100 " " 2/9

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Apomorphine Muriate.	Euonymin.	Leptandrin.	Salicin.
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A definite Chemical Compound, answering British Pharmacopœia and all other Official Tests. Is extensively used in the principal Hospitals and Infirmaries. The purity and excellence of Chloroform do not depend on the **sources of its preparation,** but on the **skill and care with which it is prepared.**

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Insect Powder, from all closed flowers
Tinctures prepared with finest English grain spirit

HAVE AN
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Samples and close quotations for the above, also for any Standard Drugs and Preparations, on application to—

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THE BEST. THE CHEAPEST.

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APOLLO

Made by the largest Liquorice Manufacturers in the World. Is the concentrated extract of the richest root. Contains no added substance whatever. It is very soluble, smooth to the tongue, and entirely free from grit. It is made where the root grows, under supervision of English staff. Is not a sweetmeat but a high-class Pharmaceutical article.

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GUARANTEED PURE REFINED EXTRACT OF LIQUORICE. BRIGHT, SOLUBLE.

In sticks of 8 and 5 to lb., or according to buyer's convenience. Sticks with buyer's own mark or name if desired ; packed in cases of 1 cwt.

Glycyrrhizinate Amon. 70/72–80/82. LIQUORICE ROOTS in Bundles. *Wholesale only.*

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SPUN OINTMENTS

impalpable and absolutely uniform, are now the standard of quality.

(Regd. Trade Mark.) And CREAMS of every kind for HOME and EXPORT trade.

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IN FOUR SIZES. Discount for large quantity.

Bijou - 18/- per gross. Large - 48/- per gross.
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IN ALL SHADES.

THE BILTON ... ... 3/6 & 6/- doz.
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LIME CREAMS.

IN ALL SIZES.

With various labels and varied finish. A homogeneous Pure White Cream, which keeps indefinitely and will not go thick or separate. White French Limes.

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For every class of Trade. In bulk or packed in tins.

CHEMICAL FOOD. CITRATE OF MAGNESIA. EFFERVESCING SALINE.
HAZEL FOAM. SYR. HYPOPHOS. CO. SYRUPS (CONCENTRATED).

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Recognized by the Medical Profession as THE BEST TONIC.

IN 8 AND 16-OZ. BOTTLES OF ALL WHOLESALE HOUSES.

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For NEW & RARE
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PRESCRIPTIONS DISPENSED FOR THE TRADE.

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¶ "It is now nearly 11 years since the movement which resulted in the formation of the P.A.T.A. was inaugurated. Amongst the first of the fighters for protected profits was Mr. Davenport, the proprietor of **COLLIS BROWNE'S CHLORODYNE.** At a time when the Association had a few supporters and looked rather like being crushed by the opposition which it encountered, Mr. Davenport's assistance came very opportunely, and dealers in Chlorodyne might well bear this fact in mind when selecting a brand to sell to their customers. We think that those who helped to lay the foundation of the P.A.T.A. are entitled to special consideration at the hands of those whom the Association has so much benefited. It should always be remembered that the pioneers ran much heavier risks than those who have come in on the flood-tide after the success of the movement was assured, although of course we are in no sense despising or underrating the importance of more recent converts to the Association, and do not for a moment suggest that they should not be supported. All those proprietors who have stood by the P.A.T.A. through thick and thin ought to be put in an exceptional position in comparison with those who have never done a thing for the trade. If chemists *must* substitute (and it really seems as if some of them can hardly restrain their propensities), surely they might confine their operations to the goods of those makers whose motto is 'Self, and self alone.' We think no fair-minded retailer will, after full reflection seriously blame the P.A.T.A. Council for insisting that substitution must cease when the proprietor loyally does his part."

Purchasers must NOT be asked to sign a Poison Book.

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Pharmaceutical Journal, October 22, 1904.

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Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

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* „ Scillæ, P.B., 7 lbs. @ 3d. lb.
Acid Boric Pulv., 3 cwt. @ 33/- cwt.; 1 cwt. @ 33/6 cwt.; levigd. 3/- cwt. or ½d. lb. extra.
Ammon. Carb., lump, 3 cwt. @ 4d. lb.; 28 lbs. @ 5¼d. lb.; 7 lbs. @ 5¾d. lb.; powder, ¼d. lb. extra.
*Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.
* „ Anisi Conc. 1-40, 1 lb. @ 3/1 lb.
* „ Aurant. Conc. 1-40, 1 lb. @ 6/1 lb.
* „ Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.
* „ Menth. Pip. Conc., 1-40, 1 lb. @ 3/- lb.
* „ Rosæ Conc., 1-40, 1 lb. @ 7/- lb.

Bismuth, P.B., Carb., 3 lbs. @ 11/6 lb.; 1 lb. @ 11/8 lb.; subnit. 1/- lb. less.

Camphor, English Flowers, "not artificial," 5 lbs. @ 2/3 lb., 7 lb. tabs., ½ oz., ⅓ oz., or ¼ oz. @ 2/4 lb.

*Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/9 lb.:
Sinecroco, 6 lbs. @ 1/2 lb. [lb.
*„ Cinchonæ (Rubræ) Conc. 1-7, 6 lbs. @ 1/10
*„ Senegæ Conc., 6 lbs. @ 2/8 lb.

Emp. Spread, 12 yards × 16 ins. adhesive, 3/8; Ballad. B.P.C., Green @ 16/6; Cerat. Saponis @ 7/6; Picis Co. @ 7/6; Plumbi @ 6/-; Resin @ 4/6; Roborans @ 6/-; Saponis, B.P. @ 6/-
Emp. Picis, P.B., 7 lbs. @ 8½d. lb.
„ Plumbi, P.B., 7 lbs. @ 8½d. lb.
„ Resinæ, P.B., 7 lbs. @ 8½d. lb.
„ Roborans, 7 lbs. @ 8½d. lb.
Emulsio Ol. Morrhuæ, 5 lbs. @ 11d. lb.
*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 2/- lb.; Bergamot, 2/6 lb.
*Ess. Pineapple, 5 lbs. @ 3/4 lb. [lb.
*„ Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6
*„ Vanilla Beans, 5 lb. @ 4/4 lb.; 1 lb. @ 4/7 lb.
*Ext. Belladonnæ Liq., B.P., 5 lbs. @ 4/3 lb.; 1 lb. @ 4/8 lb.; solid, 7 lbs. @ 4/3 lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.
*Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 1/7½ lb.
*Ext. Hamamelis Liq., P.B., 5 lbs. @ 3/5 lb.
Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 4/9 lb.; 1 lb. @ 5/1 lb.
*Ext. Ipecac. Liq., P.B., 5 lbs. @ 14/- lb.; 1 lb. @ 15/- lb.
Ext. Malti c. Ol. Jecoris, 10 lbs. @ 5½d. lb.
*Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 3/5 lb.; 1 lb. @ 3/8 lb.; solid, 5 lbs. @ 3/7 lb.; 1 lb. @ 3/10 lb.
Ext. Quassiæ, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.
Ext. Sarsæ Co. Solid, 7 lbs. @ 4/9 lb.; 1 lb. @ 5/3 lb.

*Glycerin. Acid. Boric, P.B., 6 lbs. @ 1/6 lb.
* „ Acid. Carbolic. P.B., 6 lbs. @ 1/6 lb.
* „ Acid. Tannic. P.B., 6 lbs. @ 1/6 lb.
„ Belladon. B.P.C., 6 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.
*Glycerin. Boracis, P.B., 6 lbs. @ 1/3 lb.
* „ Pepsin. Acid, P.B., 1 lb. @ 3/1 lb.
* „ Plumbi Subacet. P.B., 6 lbs. @ 1/7 lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/1 lb.

*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
*„ Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* „ Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* „ Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* „ Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
* „ Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* „ Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* „ Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
* „ Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* „ Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* „ Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* „ Senegæ Conc., 1 to 7, 6 lbs. @ 2/6 lb.
* „ Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.

*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.
* „ Bellad. Meth., 5 lbs. @ 1/9 lb.; 1 lb. @ 2/- lb. [1/3 lb.
„ Camph. P.B., 40 lbs. @ 1/2 lb.; 9 lbs. @
„ Sapo Meth., 9 lbs. @ 7d. lb.
„ Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 1/- lb.
* „ Ammon. Aromat., 6 lbs. @ 9d. lb.
* „ Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
* „ Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* „ Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* „ Bismuth, P.B., 6 lbs. @ 1/3 lb.
* „ Copaiba Buchu et Cubeb, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
* „ Easton., p.s. 1-3, B.P., 1 lb. @ 3/- lb.
* „ Ferri Dialysatus, 6 lbs. @ 7d. lb.
* „ Ferri Iod. p.s., 1-7, 1 lb. @ 7/6 lb.
* „ Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.
* „ Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/6 lb.
* „ Hypophosph. Co., p.s., B.P.C., 1 lb. @ 3/4 lb.
* „ Iodi Fort, B.P., 5 lbs. @ 5/8 lb.
* „ Morphinæ Acet. or Hydrochlor., P.B., 6 lbs. @ 2/9 lb.
* „ Opii Sed., 5 lbs. @ 4/6 lb.

We have pleasure to quote herewith our current prices, and will endeavour to adhere to same as far as possible; it is impossible, at the moment, to quote any definite prices for Chemicals owing to the disorganised state of the markets, but we are supplying our regular customers with their requirements as far as we can.

*Liq. Plumbi Subacet., P.B., 7 lbs. @ 3½d. lb.
* „ Pruni Virg. p.s. 1-7, 5 lbs. @ 2/2 lb.
* „ Rhœados pro Syr., 1 to 7, 5 lbs. @ 1/11 lb.
* „ Rhei p.s. 1-7, 6 lbs. @ 2/2 lb.
* „ Santali Co., 1 lb. @ 4/- lb.
* „ Sennæ Dulc. 6 lbs. @ 1/4 lb.
* „ Sennæ pro Syr. 1-7, 6 lbs. @ 2/- lb.
* „ Strychninæ Hyd. P.B., 6 lbs. @ 1/6 lb.
* „ Tolut. pro Syr. 1-7, 6 lbs. @ 1/8 lb.
* „ Trinitrini, B.P., 1 lb. @ 6/1 lb.

Ol. Caryoph. Ang., B.P., 9 lbs. @ 4/3 lb.; 4½ lbs. @ 4/5 lb.
Ol. Menth. Pip. English, 5 lbs. @ 34/6 lb.; 1 lb. @ 36/- lb.; American, 20 lbs. @ 14/- lb.; 4½ lbs. @ 14/9 lb.; 1 lb. @ 15/6 lb.
Ol. Wintergreen, Artificial, 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.
Oxymel Scillæ, B.P., 5 cwt. @ 34/6 cwt.; 1 cwt. @ 36/6 cwt.; *7 lbs. @ 7d. lb.

Pulv. Cretæ Arom. P.B., 14 lbs. @ 7d. lb.; c. Opio, B.P., 7 lbs. @ 1/9 lb.
Pulv. Glycyrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 50/- cwt.
Pulv. Ipecac. Comp. P.B., 1 lb. @ 4/- lb.
„ Jalap Comp. P.B., 1 lb. @ 1/6 lb.
„ Rhei Comp. P.B., 1 lb. @ 1/2 lb.

*Spt. Æther Nit. P.B., 4½ lbs. @ 3/7½ lb.; 1 lb. @ 3/10½ lb.
* „ Ammon. Aromat., P.B., 5 lbs. @ 2/10 lb.
* „ Chloroform, P.B., 5 lbs. @ 3/7 lb.
*Syr. Aurant, P.B., 7 lbs. @ 10½d. lb.
* „ Easton, B.P., 7 lbs. @ 1/2 lb.
* „ Ferri Iodid. P.B., 7 lbs. @ 1/6 lb.
*Syr. Ferri Phosph. Co., 7 lbs. @ 6½d. lb.
* „ Hypophosph. Co. B.P.C., 7 lbs. @ 10½d. lb.
* „ Pruni Virg. B.P., 8 lbs. @ 8½d. lb.
* „ Rhamni, 7 lbs. @ 11d. lb.
* „ Rhei, P.B., 7 lbs. @ 9d. lb.
* „ Scillæ, P.B., 7 lbs. @ 6d. lb.
* „ Sennæ, P.B., 7 lbs. @ 9½d. lb.
* „ Tolut., P.B., 7 lbs. @ 8½d. lb.

Tinct. Aurantii Recens., B.P., 5 lbs. @ 3/6 lb.; bond, 8½d. Aquos, 10d. lb.
*Tinct. Belladon., B.P., 5 lbs. @ 3/3 lb.; bond, 6½d. Aquos, 1/2 lb.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/6 lb.; bond, 10d.
*Tinct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb.; bond 6½d. Aquos, 1/1 lb.
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*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb. Aquos, 10d. lb.
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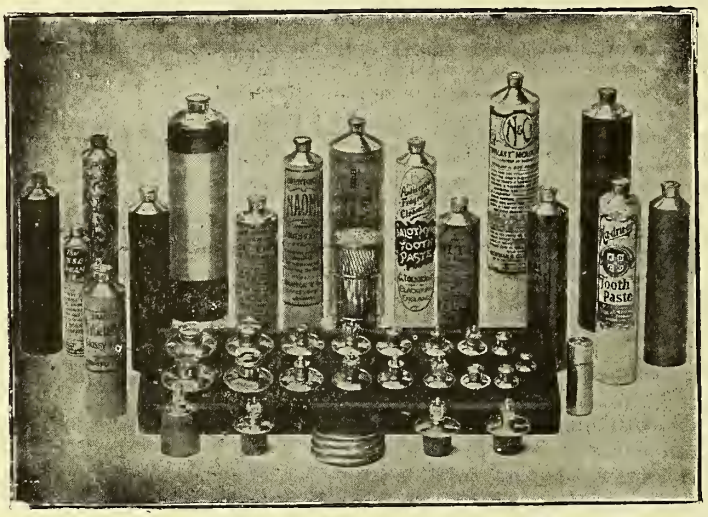

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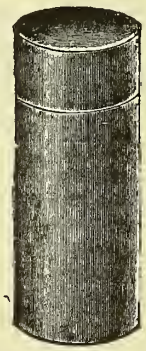

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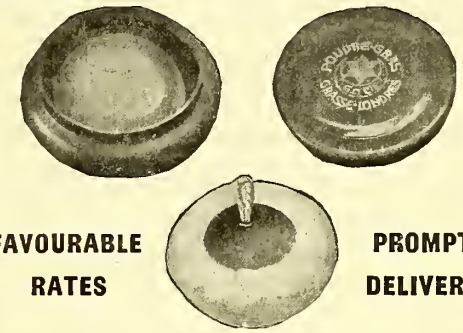

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NORTH-EAST COAST (Fashionable Resort).—First-class Retail and Dispensing, splendidly fitted, for valuation of stock and fixtures; principals only treated with. Apply in first instance, 219/16, Office of this Paper.

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£50.—Grand chance for young Pharmacist to take over fixtures, goodwill, and trade utensils of a Drug Business, established over 50 years, in go-ahead town, yielding for years £4 a week net profit; if wanted, part stock at valuation. Pratt, Pharmaceutical Chemist, 7 Westgate, Cleckheaton.

URGENT Sale. — Twelve Registered Trade-marks and Titles with Formulas, Designs and mode of Manufacture will be given away free to responsible firms; the whole business is in perfect working order; established upwards 10 years; consisting of Toilet lines and special Pharmaceutical Proprietaries; guaranteed genuine. Address, "Enterprise" (215/26), Office of this Paper.

TO LET.

CHEMIST; just closed; established 30 years; handsome Shop, convenient dwelling; good position; near Stratford Broadway; all fittings, fixtures, stock, etc., complete, ready for re-opening; rent £40; premium £50; an astounding bargain. Apply, Mr. Bacon (Landlord), 25 Liverpool Street, E.C.

FOR SALE.

CASH Register (National); nearly new; condition guaranteed; suit small business; bargain. Letters only to "F. H.," 22 Cranbrook Road, High Road, Chiswick, W.

DRUG Plant (Second-hand).—30-gallon Vacuum Plant, with Copper Pan, Pump, and Fittings complete, by Morton; Gun-metal Filter; Pill-coating Machine by Wilkinson; Gas Oven, 6 by 4 by 4, with Trays, by Parkinson; 3 Hand Capsuling Machines. Photos and price on application, M'Coy & Sons, Ltd., Machinery Merchants, Belfast.

FOR £14 in Exeter in one lot; almost sufficient for shop; Dispensing Screen, with Sponge Case and four Glazed Cupboards on Counter; 10-ft. Mahogany Counter, fitted Drawers and five Glazed Cupboards in front; 4-ft. 6-in. Bent-glass Counter Case; Mahogany-framed Mirror, 8 ft. by 3 ft.; about 130 Recess-labelled Shop-rounds, including Poisons; Cut-glass Counter Jars; cheap. "Chemist," c/o Mr. Reeves, Butterwalk, Totnes.

PARTNERSHIPS.

REQUIRED, Partner (limited liability), with capital, to join an established Manufacturing Chemist, having Factory in London, to manufacture Chemicals in great demand. Address, Mr. P. B. Colegrave, Chartered Accountant, 37 Queen Victoria Street, London, E.C.

BUSINESSES WANTED.

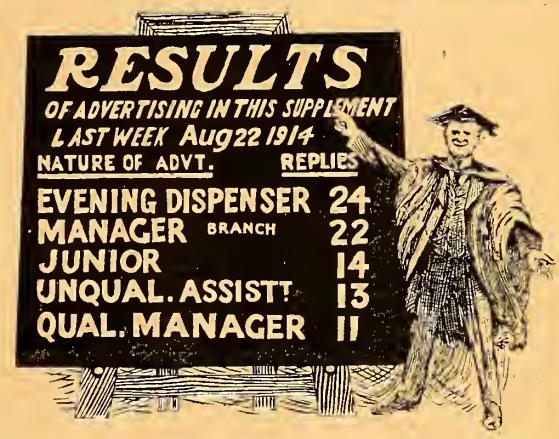
PHARMACIST desires to purchase privately good-class Business in W. or S.W. of town; one returning between £2,000 and £3,000 preferred; capital at command. Apply, with preliminary details, to "Pharmacist" (221/3), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

CARLISLE.—Wanted, at once, young qualified Chemist; duties chiefly Dispensing (partly Military); easy hours; half-holiday; outdoors. Send usual particulars to Ritson, Chemist, Carlisle.

HULL.—Wanted, Junior Assistant (outdoors), used to good-class Retail and Dispensing business. Send full particulars, age, reference, and salary required, C. H. Kirton, Pharmaceutical Chemist, 197 Coltman Street, Hull.

LONDON, N.E.—Assistant for Retail and Dispensing, three days a week from 1 till 10 p.m. State age, salary, qualifications, experience, "Maranto" (221/32), Office of this Paper.

LONDON, N.E.—Qualified; elderly, or one seeking permanent light employment would suit; comfortable berth; easy hours arranged. State salary, references, etc., to "Senex" (223/18), Office of this Paper.

LONDON, N.W.—Wanted, a capable and gentlemanly Assistant (indoors) for high-class Retail and Dispensing business. Please apply, stating age and experience and salary required, enclosing photo if possible, to W. J. Dalby, 6 Canfield Gardens, Hampstead, N.W.

LONDON, S.W.—Wanted, about the end of September, unqualified Assistant, 23 to 25, for Stock, Counter, and Dispensing. Apply, with full particulars, salary required (outdoors), to A. T. Gray, 5 High Street, Barnes.

LONDON, WEST.—Wanted, capable and unqualified Assistant; outdoors; West End preferred, but not essential; permanent if suitable; smart young man able to take entire charge if necessary; good references. State age, full particulars, and salary required, 222/39, Office of this Paper.

LONDON, W.—Junior Assistant at once for high-class Dispensing business. W. McEwen, 17 Craven Road, W.

WOOLWICH UNION.

DISPENSER AND MEDICAL SUPERINTENDENT'S CLERK.

THE Guardians require the services of a Dispenser and Medical Superintendent's Clerk (male) at their Infirmary, High Street, Plumstead, S.E.

Applicants must be qualified under the Pharmacy Act of 1868 or in some other recognised manner.

Salary £90, rising £10 biennially to £110 per annum, with dinner and tea daily, subject to deductions under the Poor Law Officers' Superannuation Act, 1896. The officer will be excepted from the provisions of the National Health Insurance Act.

Forms of application, which can be obtained at my office on receipt of a stamped addressed foolscap envelope, must reach me not later than Monday, the 7th September next.

Canvassing the Guardians will disqualify.

By Order,
TOM CUTTER, Clerk to the Guardians.

30 Rectory Place, Woolwich, S.E.,
22nd August, 1914.

LONDON, W.—Wanted at once, qualified Assistant (outdoors) for Dispensing Counter. Apply, stating age, height, salary required, with full details of previous experience, to W. Martindale, 10 New Cavendish Street, London, W.

MANCHESTER.—Qualified Assistant wanted at once; comfortable berth; good salary. State particulars, reference, etc., 221/30, Office of this Paper.

MANCHESTER.—Elderly qualified Chemist required; easy hours; work light. Reply, "Chemicus" (219/19), Office of this Paper.

NEAR Manchester.—Qualified Assistant required; Part-time; must have excellent references. Apply to 218/24, Office of this Paper.

REDDITCH.—Junior Assistant wanted for Mixed business; outdoors. State age, height, salary, W. Mousley, Chemist.

ROYAL SUSSEX COUNTY HOSPITAL, Brighton.—Assistant Dispenser (male) required for September 5; he must possess at least the Minor qualifications of the Pharmaceutical Society, and be duly registered; salary £130, rising £10 annually to £150, with dinner provided daily; hours 9.30 a.m. to 5 p.m., with three hours' duty on alternative Sundays and Bank Holidays. Applications, stating age and height, with copies of testimonials and photograph, to be sent on or before August 29 to the Secretary, at the Hospital, from whom further particulars may be obtained.

WEST END.—Qualified Junior Assistant wanted, early in September; experienced in high-class Dispensing absolutely imperative. Apply, giving full details of experience, age, and salary expected, to Box 12, c/o S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C.

WESTON-SUPER-MARE. — Wanted, Assistant for good-class Dispensing and Retail business. Please state full particulars and reference, Blackmore, Weston-super-Mare.

WILLENHALL. — Required end of September, a reliable Assistant, unqualified (outdoors), for Dispensing and Counter; moderate hours. Apply, stating age, height, references, and salary required, to W. H. Walker, Chemist, Willenhall, Staffordshire.

YORK.—Required, for middle of September a smart Junior Assistant, age about 20; N.H.I. Dispensing and General Family business; no Sunday duty. Apply, with full particulars, stating age, experience, salary required (outdoors), with references and photo (to be returned), Saville & Sons, Pharmacists, York.

A GOOD Assistant wanted for Counter and Dispensing. Apply, with fullest particulars, to Emrys Evans, Victoria Pharmacy, Aberdare, South Wales.

A JUNIOR Lady Dispenser, needing experience; Part-time, Mondays and Fridays. Apply, "Sister," Medical Mission, Quadrant Street, Old Canning Town, E.

ASSISTANT, qualified, required for Light Retail and Dispensing, about second or third week September; easy hours; indoors. State salary and usual particulars, Smithson, 1 Preston Road, Brighton.

AT once, smart Junior or Improver (outdoors); knowledge of Photography essential. Apply, G. W. G. Robinson, 307 Railton Road, Herne Hill, S.E.

"BODY'S PHARMACIES," Chemists and Ophthalmic Opticians, Southend-on-Sea, have a vacancy for a smart young qualified Assistant; excellent prospects for the right man with enterprise and ability; must be experienced in good-class Dispensing and Retail Pharmacy; Optical knowledge not essential; state full particulars and salary required (indoors, private rooms), enclose photo if too distant for personal interview. Apply, Body, 1 Britannia Road, Westcliff-on-Sea.

BRANCH Manager wanted for small business, North London; scope for increase; comfortable house; healthy locality; vacancy now open. Apply as soon as possible to 61 Stroud Green Road, London, N.

DISPENSER (qualified) wanted, male or female; age not over 35; able to take Photographs and to do Clerical work; salary starts at £85, rising by £2½ to £100; to live out. Apply, with full particulars, to the Medical Superintendent, Herts County Asylum, Hill End, St. Albans.

DISPENSERS.—A number of women Dispensers are required temporarily in connection with the pricing and examination of Chemists' Prescriptions. Applications, on foolscap paper, in the applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed, 259/52, Office of this Paper.

GOOD Dispenser wanted; unqualified; quick and accurate; good salary; bedroom provided, board out. Apply, full particulars, Mr. Harris, 2 Queen Street, Exeter.

JUNIOR Assistant wanted; outdoors; used to a General Mixed business; a fair amount of Dispensing; easy hours; one hour duty every alternate Sunday morning. Give full particulars as to age, height, salary required, enclosing photo (which will be returned), to W. Taylor, Pharmacist, Heanor, Derbyshire R.S.O.

JUNIOR Assistant, 20 to 23, unqualified, for good-class Dispensing business; first week in September; must be a good Dispenser and accustomed to Counter. Apply, with full particulars and photo, to Hawley & Son, Pharmacists, Aigburth Road, Liverpool.

JUNIOR Assistant required, about 21, outdoors, for good-class business; must be a reliable Dispenser; no Panel work. Apply, giving references and stating age, experience, and salary required, to J. W. Moorhouse, Pharmacist, Barnsley.

JUNIOR (unqualified) required at once in good-class Retail and Dispensing business, where three are kept. Reply, with usual particulars, and enclose photo, Procter, 5 Station Parade, Eastbourne.

LADY Dispenser (qualified), with knowledge of Nursing, for Officers' Home, Osborne, Isle of Wight; salary £57 per annum (indoors); £5 for uniform. Apply, F. A. Bell, Dispensing Department, Harrods, Ltd., Brompton Road, S.W.

LOCUM.—Young unqualified Assistant wanted for first fortnight in September in good-class Light Retail and Dispensing business. State terms and particulars to "X. Y. Z." (220/21), Office of this Paper.

LOCUM (qualified) for September 7 or 14 for two weeks; outdoors; must be thoroughly reliable; London experience not essential. Apply, with usual particulars and references, to Hodges, 164 Rushey Green, Catford, S.E.

MANAGER, qualified, for Branch and Locum required at once; good prospects to a diligent business man. Apply, with full particulars, to Bewell's, 19/21 Pitfield Street, N.

QUALIFIED Manager required for Family and Dispensing business; convenient house provided. State age, height, salary required, references, etc., and send photo if possible, to Holman, Ham & Co., 74 High Street, Exeter.

QUALIFIED Manager wanted for a small Branch in a working-class district; state salary, age, and when disengaged. Address applications to "Fryer," c/o Hirst, Brooke & Hirst, Millgarth Mills, Leeds.

QUALIFIED Senior Assistant; quick and accurate Dispenser; good-class Dispensing and Family Retail; knowledge of Photography; comfortable berth for reliable and willing man wanting permanency. State full particulars, 222/32, Office of this Paper.

QUALIFIED Assistant in good-class Country business; easy hours; no Sunday or Holiday duty; very comfortable berth. Apply, 220/32, Office of this Paper.

QUALIFIED Assistant wanted; Manchester district; permanency to suitable man. Apply, 71/39, Office of this Paper.

RELIABLE Assistant, age 23-30, for Light Retail and Dispensing business in Berkshire; outdoors, or house provided if married; good salary and permanency for suitable applicant. State salary required, experience, references, with photo if possible, to Wood, Chemist, Ferndale, Rugeley.

WANTED, at once, a qualified Dispenser and Bookkeeper to fill the place until the return of one on active service. Apply, with references, stating age, etc., Drs. Thompson, Gibson, and Budd, Launceston, Cornwall.

WANTED, by September 7, Senior Assistant for small Retail and Dispensing business; Minor qualification; easy hours. Apply, stating full particulars, salary required (indoors), references, etc., to F. Tunbridge, 39 Castle Street, Reading.

WANTED, a gentlemanly Junior for about four or six months for a good-class business; must be well up in Dispensing, neat and accurate. Please send references, etc., to A. Waldron, Milverton Pharmacy, Leamington Spa.

WANTED, at once, a competent Dispenser for high-class Dispensing business. Please apply, with full particulars, to Hunt, Chemist, Winchester.

WANTED, early in September, reliable Assistant, aged about 30; experienced Dispenser; outdoors. Apply, stating age, height, usual particulars, salary, etc., to R. T. Clarke, M.P.S., 131 Milton Road, Gravesend.

WANTED immediately, qualified Dispenser and Bookkeeper for good-class practice in Lancashire manufacturing town; good references essential. Apply, stating age, salary required, 220/22, Office of this Paper.

WANTED immediately, an Assistant, unqualified, of gentlemanly appearance and good Dispenser. Apply, W. S. Wardle, Pharmacist, 290 Brixton Road, S.W.

YOUNG unqualified Manager, married or single, for working-class business; must be good Salesman, resourceful, and willing to give whole time to business; hours 9 to 9; weekly half-holiday; Sunday for N.H.I. Dispensing 2 hours; an interest could be acquired on easy terms. Name salary and give fullest particulars, 221/33, Office of this Paper.

WHOLESALE.

IRELAND.—Wanted, working Chemist, able to take charge of small Laboratory for Galenicals and Proprietary goods. Apply, 71/42, Office of this Paper.

WANTED, Travellers (two); one for London and Suburbs, other calling on Country Chemists; good agency open to first-class men with established connection. State fullest particulars in confidence to "Brittanic" (68/72), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; passage paid out and home by P. & O. steamship. Apply, with copies of testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

SOUTH AFRICA.—Qualified Assistant; single; about 25-28; with London experience preferred; three years' agreement; salary £20, £22 10s., and £25; passage paid. Apply, Durant, Radford & Co., Ltd., Billiter Buildings, Billiter Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]
RETAIL.

ACTIVE, trustworthy, unqualified Assistant; thoroughly experienced in all branches of the trade, having held good positions of control; middle aged; married. "B.," 45 West Brampton, Newcastle, Staffs.

ADVERTISER, middle-aged, requires part-time work; Counter, putting up Stock, or Dispensing; excellent references. "Alpha" (223/12), Office of this Paper.

AS responsible Assistant or Management; quick; middle-aged; London and Provincial experience; smart Counterman, Prescriber; reliable; disengaged September 1; moderate salary. "Unqualified" (217/40), Office of this Paper.

ASSISTANT; 21; 5 ft. 10½ in.; good experience; Counter, Dispensing; excellent references. "Rhei," 30 Arkwright Street, Bolton, Lancs.

ASSISTANT; 22; disengaged September 19; active Dispenser, Counterman, Stockkeeper; West-End experience; Cardiff or near preferred; outdoors. "B.," 14 Caerau Road, Newport, Mon.

ASSISTANT; 22; smart and willing; Retail and Wholesale; wide experience; Leeds district preferred. 218/13, Office of this Paper.

ASSISTANT; 43; Manager experience; good Salesman and Dispenser; active and reliable; unregistered. "Statim," 91b City Road, Manchester.

ASSISTANT (20), with Dispensing, Stock, and slight Counter experience, seeks permanency; disengaged September 12. W. Catt, 186 Vauxhall Bridge Road, Westminster, S.W.

ASSISTANT, 24, good appearance and address, desires Part-time; evenings or morning preferred; good references; accurate Dispenser; near West End preferred. 70/65, Office of this Paper.

ASSISTANT; exceptional high-grade modern experience; splendid Prescriber, Dispenser; keen Salesman; 27; married; unqualified; energetic, reliable; excellent references. "W. H. C. N.," 21 Bath Street, Huddersfield.

ASSISTANT; age 40; Mixed business; all-round experience; good references. 219/17, Office of this Paper.

ASSISTANT; 27; outdoors; West End, South Coast experience; excellent testimonials; London preferred. G. A. Voizey, 9 Jameson Street, Notting Hill Gate, W.

ASSISTANT; disengaged one or two days a week 9 to 5; take charge or Stock; highest references. 222/15, Office of this Paper.

ASSISTANT; unqualified; competent; shrewd, tactful Salesman; attractive Window-dresser; Photography, Dispensing; excellent references. 220/34, Office of this Paper.

ASSISTANT or Manager; 35; unqualified; Russian by birth but a naturalised British subject; speaks English fluently and several other languages; splendid handwriting; exceptional high-grade modern experience of 17 years' standing; good Prescriber, Dispenser, Optician; keen Salesman, good Window-dresser; in business of his own for the last 14 years; always been successful until recently, having entered into a big limited liability concern and owing to lack of capital had to give up; salary £2 10s. and commission. P. Dollow, 98 Chesterton Road, North Kensington, London, W.

ASSISTANT (24), best Dispensing and Counter experience, desires position where time for study could be arranged; near Schools of Pharmacy; outdoors; excellent references. 220/26, Office of this Paper

ASSISTANT; 34; tall; good address; 14 years' experience; outdoors; permanency; good references. 220/27, Office of this Paper.

ASSISTANT; 21; good-class Dispensing. Photographic, all-round experience; commence October 1. Fullest particulars, 220/20, Office of this Paper.

ASSISTANT (25) desires situation; North Midlands preferred; experienced Wholesale and high-class Retail. 220/7, Office of this Paper.

BRISTOL.—Junior; outdoors; 3 years' good experience; good reference. "Junior" (220/17), Office of this Paper.

CHEMIST, 41, qualified, in indifferent health but active, seeks permanency as Dispenser, Supervisor, etc., at moderate terms; single; good varied experience. "Worthy" (221/305), Office of this Paper.

CHEMIST-OPTICIAN, with full qualifications and experience, is open for engagement in good Pharmacy or Store for Dispensing and Optical work, or as Sight-tester only. Apply, 209/23, Office of this Paper.

DISENGAGED; Assistant or Locum; thoroughly competent, reliable; terms moderate. "Chemicus," 214a The Grove, Hammersmith.

DISPENSER (26) requires permanent engagement with Doctor; South of England preferred; best references; good Surgical Dresser; willing. Write, "Rhei," Woodlands, Grouville, Jersey.

EVENINGS only; London; Assistant; Counter or Dispensing; 7 years' valuable experience. Howitt, Cavendish Road, Leicester.

EVENINGS and occasional Sundays free; Dispensing, Counter, Photography. "Senior," 544 King's Road, Chelsea, S.W.

EVENINGS; Manchester; Minor Student; Dispensing or Surgery. Holmes, 9 Fitzwarren Street, Pendleton.

EXPERT Window-dresser seeks situation, home or abroad; experienced in special displays. 218/39, Office of this Paper.

HOSPITAL Locum; qualified Dispenser. Irving, 66 Rowfant Road, Balham, London, S.W.

IRISH Pharmaceutical Chemist; 26; 2 years as Senior present situation; London preferred. 219/9, Office of this Paper.

JUNIOR, high-class experience, Photography, requires situation in September; Kent or Sussex preferred. "Oxonian," 26 Gladstone Street, Winsford, Cheshire.

JUNIOR; disengaged; tall; used to high-class Retail and Dispensing. "T. T.," 63 Banbury Road, Oxford.

JUNIOR; 4 years' high-class experience Dispensing and Retail. "Statim," 85 Langney Road, Eastbourne.

JUNIOR Assistant; age 23; excellent address; good Salesman, experienced Dispenser; soon disengaged. 222/2, Office of this Paper.

JUNIOR (20), good Dispenser, N.H.I., desires position near Croydon or City; 4 years' experience; outdoors. "Assistant," 26 Woodville Road, Thornton Heath.

JUNIOR requires situation, North; good references; Counter and Dispensing experience; liberty any time. 222/36, Office of this Paper.

LADY Dispenser (Hall) desires post in Doctor's house to act as Dispenser and useful help; thoroughly domesticated. Apply, "N. K.," 100 Park Hill, Clapham Park, S.W.

LADY (Chemist's Assistant) desires situation as Dispenser with Doctor or Chemist; good references; Midlands preferred. Miss Lord, 39 Berry Road, Newquay, Cornwall.

LADY, qualified, desires situation as Dispenser in Pharmacy or Surgery. 219/38, Office of this Paper.

LADY Dispenser (Hall); thoroughly experienced; Doctor or Chemist. "D. G.," 12 Salisbury Road, Worthing.

LADY; 25; disengaged; thoroughly experienced, and excellent reference; Packing, Counter, and Cash Desk. Glover, 84 Stormont Road, Clapham.

LANCASHIRE.—Assistant, unqualified; 24; abstainer; permanency; 7½ years' all-round experience; good Dispenser, Window-dresser; first-class Salesman; Photographics; disengaged end September. "Aspirin," 200 Central Drive, Blackpool.

LOCUM, permanency; qualified; 38; London, Provinces. "Chemist," 28 Mornington Crescent, London, N.W.

LOCUM; disengaged; good experience; satisfactory references; qualified. 38 West Brampton, Newcastle, Staffs.

LOCUM, qualified; 20 years' first-class and Store experience; 35 years of age; sober; at liberty after September 14. "Aspirin," 29 Avondale Road, Southport.

LOCUM, otherwise; reliable; disengaged; thoroughly experienced, up to date. "D.," 82 Marlborough Road, Romford.

LOCUM or permanency; 37; qualified; disengaged. "Chemist," 54 Bell Street, N.W.

LOCUM; 44; qualified; tall; no single-handed; experienced; disengaged. Rogerson, Cunliffe Terrace, Bradford.

LOCUM; good all-round experience; disengaged September 7. "Reliable" (221/22), Office of this Paper.

LOCUM or permanency; experienced Counterman, Window-dresser, and Dispenser; disengaged September 14. "Competent" (221/21), Office of this Paper.

LOCUM; highest references; wide experience; age 38. "Beta" (222/35), Office of this Paper.

LONDON.—Qualified; Locum or permanent; experienced; tall. Jones, M.P.S., 2 Ashchurch Grove, Ravenscourt Park, W.

LONDON.—Lady Dispenser; Locum; free September; experienced. Mill, 52 Fulham Park Gardens, S.W.

LONDON.—Experienced Assistant wants permanency; good Counterman, Dispenser; unqualified; 33; good references. "Capable" (220/25), Office of this Paper.

M.P.S.; country district preferred; Managership; Insurance, Photo, Prescribing; splendid references. 209/306, Office of this Paper.

M.P.S.; Managership; permanency or Locum; London or 15 miles south. "Statim" (223/8), Office of this Paper.

MANAGER (registered); Prescriber (Mixed); age 35. 17 Whitehead Road, Aston, Birmingham.

MANAGER; energetic; good Salesman; high-class all-round experience; Photography; for permanency. 218/15, Office of this Paper.

MANAGER; qualified; 18 months Senior in first-class West-End Pharmacy; Photography; good Salesman and Stockkeeper; disengaged; excellent references. 221/18, Office of this Paper.

MANAGER (Branch); experienced as such; Hall; 36; married; excellent references; permanency; disengaged. "Reliable" (220/6), Office of this Paper.

MANAGER for 2½ years in up-to-date London Pharmacy requires similar position; age 30; height 6 ft.; good appearance and testimonials; disengaged. "Pharmacist," 43 Grafton Road, Acton, W.

MANAGER or Managing Assistant; 30; Minor; good organiser; best experience and references; disengaged September 5; provinces preferred. "S. W. B.," 240 Earl's Court Road, S.W.

MANAGER or Locum; qualified; disengaged; town or country; references most satisfactory. "Aspirin," 10 Comyn Terrace, Queenborough, Kent.

MR. ATKINSON, Rexall Pharmacy, Six Ways, Birmingham, has highly recommended experienced Assistant; age 25; at liberty. Would be pleased to give particulars to Rexall Chemists requiring same.

PART-TIME Assistant (foreigner); mornings only; Stock or Dispensing; Panel experience; excellent references; nominal salary. Poszgay, 190 Vauxhall Bridge Road, S.W.

PART-TIME; qualified; disengaged; 27; West-End and General experience; Photography, Optics; good Salesman, Stockkeeper; excellent references. "K. O. H.," 151 Grange Road, Ramsgate.

PHARMACIST (26), Hospital and private experience, undeniable references, desires permanency; Managership entertained. 220/4, Office of this Paper.

PHARMACIST (27), reliable, good references and experience, desires Management; shortly disengaged; Birmingham or district. "Midland" (220/11), Office of this Paper.

PHARMACIST (33), excellent London and Provincial experience, desires responsible post; permanency, Locum. 221/28, Office of this Paper.

PHARMACIST (Lady); disengaged; London or near, South; excellent references. "English" (223/80), Office of this Paper.

QUALIFIED; Dispenser, Retail, Hospital, N.H.I., Dental experience; immediately. "Alpha," 78 Winton Street, Southampton.

QUALIFIED; Manager; married; West-End, City, Provincial experience, high class and medium; also Optics; disengaged September 25. "L. A. B.," Gordon Villa, North Walls, Winchester.

QUALIFIED; 27; Manager or Senior; all-round experience; three years' West-End; abstainer; disengaged September. "J. M.," 103 Alderney Street, South Belgravia, S.W.

QUALIFIED; age 27; excellent references; disengaged shortly. Bryant, 48 Eltisly Avenue, Cambridge.

QUALIFIED; 30; country town or seaside; North preferred; good all-round experience; outdoors; married. 218/36, Office of this Paper.

QUALIFIED (28), good all-round experience, desires permanency as Branch Manager; Yorks preferred. State terms, "Salol" (219/18), Office of this Paper.

QUALIFIED; Manager; 43; married; Locum; outdoors; Prescribing, Extracting, Photography, Dispensing, Counter; control staffs; highest references; long engagements. Jennings, 61 Tower Street, Dudley.

QUALIFIED; 22; high-class experience; Dispensing, Photography; Yorkshire preferred. Hopper, 31 Caledonian Road, Leeds.

QUALIFIED; Locum, permanency; Hospital and high-class Pharmaceutical experience. "Pentad," 398 Clapham Road, S.W.

QUALIFIED; Locum or permanency; good business abilities; references; disengaged. "Manager," Smith, Scaleseough, Carlisle.

QUALIFIED; Manager; 25; West-End and Store experience. "Capsicum," 91 Bromfelde Road, Clapham.

QUALIFIED, D.B.O.A., F.S.M.C., requires engagement; good Dispensing and Retail experience. Symons, Bossiney, ntagel.

QUALIFIED (29) desires engagement, end September; Manager or Senior; excellent Dispensing and Retail experience; Photo-raphy. Stott, 35 High Street, Weston-super-Mare.

QUALIFIED Chemist, disposing of business, desires temporary post as Manager, Assistant, or Locum; South-Western ounties preferred. Apply, 222/34, Office of this Paper.

QUALIFIED; 41; single; permanency; moderate terms; good varied experience. "Dispense" (221/35), Office of this aper.

QUALIFIED; whole or part time; London; terms moderate; N.H.I. or other work. "Handy" (221/350), Office of this aper.

QUALIFIED; elderly; active; single; good-class business; moderate salary; reasonable hours; Manage with Assistant r assist Principal; London, W. or N.W.; disengaged end of eptember. 221/15, Office of this Paper.

QUALIFIED; Manager; 41; tall; high-class and Store experi-ence; married. "Chemist" (221/9), Office of this Paper.

QUALIFIED; 31; Assistant or Branch Manager; good all-round experience; London preferred. "Radium" (220/40), Office of this Paper.

QUALIFIED (45), disabled right arm, is anxious for post as Locum or permanency where supervision is the essential; xcellent Dispensing and Retail experience; highest references; mall salary. "D.," 40 Grove Hill Road, Camberwell.

QUALIFIED; excellent English and Continental references; smart Salesman; perfect linguist. "International" (223/4), Office of this Paper.

QUALIFIED, single, 31, requires Managership with good prospects; splendid London and Provincial experience; un-deniable references; thorough attention given to business; first good offer accepted; free September 23. "Sanatogen," 270 Barking Road, Plaistow, London, E.

SCOTCH; 32; well up in Retail, Insurance Dispensing; Mid-land experience; good references from present situation as Branch Manager and Director; disengaged shortly. 209/36, Office of this Paper.

SENIOR; unqualified; 11 years City Stores, Counter, Dispensing, correspondence. "Expert," 28 Harvard Road, Gunners-bury, W.

UNQUALIFIED Assistant; age 45; Mixed business or Dispense in Surgery. 217/38, Office of this Paper.

UNQUALIFIED; Counter, Dispensing, N.H.I.; married; age 40; tall; permanency; disengaged September 7. 219/8, Office of this Paper.

UNQUALIFIED Assistant; 17 years' experience Dispensing, Counter, and Photographic; part or whole time; Manchester district preferred. "Gentian," 1 Eleanor Road, Chorlton-cum-Hardy, Manchester.

UNQUALIFIED Assistant; 22; good all-round experience. 219/15, Office of this Paper.

UNQUALIFIED; first-class experience all branches; 31; tall, sober, reliable; excellent references; Manager or Locum; disengaged. "Rexall," Cottenham, Cambridge.

UNQUALIFIED; Manager; 25; married; disengaged; 6 years' experience; Specialities, Prescribing; good Counterman; alary £2. Smith, 1 Vaughan Road, Loughborough, S.E.

UNQUALIFIED (25), 10 years' experience Dispensing, etc., requires berth; Nottingham or Midlands; good references "Aspirin," 16 Romilly Road, Finsbury Park, London, N.

UNREGISTERED; 36; varied experience; as Manager; dis-engaged; references. "Chemicus," 12 Pentonville, Newport Mon.

UNQUALIFIED; tall; competent; splendid all-round experience; 25; married. 221/10, Office of this Paper.

UNQUALIFIED (32), married, desires permanency; good all round experience in Dispensing, Prescribing, and Photo-raphy; capable Extractor; take Impressions and fit Artificial eeth; disengaged early in October. 221/5, Office of this Paper.

UNQUALIFIED; Manager or Senior; 32; West-End and Suburban experience; disengaged September 12; highest references. "Rhei," 143 Upton Lane, Forest Gate.

UNQUALIFIED; 26; London and Provincial experience; com-petent. "H.," 50 Foxley Road Brixton, S.W.

UNQUALIFIED; single; disengaged shortly; Counter, Dispens-ing, N.H.I., Extractor; outdoors; Midlands preferred. "Linc" (220/23), Office of this Paper.

UNQUALIFIED; 32; single; neat, accurate Dispenser; ener-getic and reliable; convenient for classes. 220/3, Office of this Paper.

UNQUALIFIED; Assistant or Manage; 41; active; thoroughly reliable; experienced town trade, N.H.I., Counter; London area; disengaged end September; moderate terms. "S.," 37 Park Place, Margate.

UNQUALIFIED; Hall qualification; age 49; abstainer; single; good references; 40s. weekly; active, energetic; disengaged; interview. Watson, 5 Barnfield Road, Belvedere, Kent.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED; 35; good experience, Counter and Dispensing. "Locum," 51 Elystan Street, Chelsea.

UNQUALIFIED; 34; married; permanency; live on premises. "W. H.," 30 King Street, Blackpool.

33; qualified; Branch Manager; Insurance Dispensing, Pre-scriber; suit middle-class district; references; disengaged about one month; present situation 1½ years. Apply, "M.P.S.," 2 Bilston Road, Wolverhampton. Birmingham or Sheffield district preferred.

34; qualified; good reason for leaving present situation, nearly two years Manager; quiet country district, commercial town, not objected to. 209/360, Office of this Paper.

35/- weekly (outdoors); Manager or Assistant; highest refer-ences; accustomed sole control; first-class Counterman, Dispensing, Photography, Prescribing; tall; abstainer; 32; married; no family. "Permanency" (220/33), Office of this Paper.

WHOLESALE.

CHEMIST, excellent Salesman, desires post as Representative; would accept Agencies; can interview medical men. Herbert, 38 Richmond Road, Bayswater, W.

DO you want an energetic Representative, with English and American experience, capable of controlling staff? Yorkshire and the North; 31 years of age; abstainer; Drugs or Sundries. 220/8, Office of this Paper.

PHARMACEUTICAL Chemist, with many years' experience in the offices and works of some of the largest and best-known Pharmaceutical houses in the world, seeks position as Business or Works Manager with a firm alive to the opportunities opened by the war; under certain conditions small capital might be invested. 220/36, Office of this Paper.

WANTED, position as Technical Secretary or understudy to the proprietor or manager of a large Manufacturing business; advertiser has had very large experience of business organising and works administration, and would, if desired, accept service on condition that a previously decided improvement should become apparent within a fixed time. 220/360, Office of this Paper.

WAR! War!—Now is your opportunity to step in where Germany has left off; smart qualified Chemist, with up-to-date ideas and live connection is open to Represent or take up Agency for first-class house; own motor-car; can guarantee busi-ness if goods are right; references, Bankers, etc. Offers, 223/10, Office of this Paper.

YOUTH (21) seeks position, Wholesale and Retail Counters. Dries; disengaged fortnight's notice. Apply, 218/18, Office of this Paper.

DRUGGISTS' Sundries work wanted at home by experienced machinist; large or small quantities cut out if required. "Sundries" (222/10), Office of this Paper.

THE BOARD OF AGRICULTURE STATES—
"Every additional egg laid, and every chicken hatched, helps the food supply." Are you alive to that fact? Now is the time to do your part. Pack your own Egg Producer. I have one. Egg record to date 763 (6 hens from Feb. 1, 1914). Also introduce a new speciality, a cheap line that will pay you. These live ideas, formula, copy for advts., &c., 7/6. A Lancs. Pn.C. this week writes: "I sell? All the year round, wholesale and retail, and am thinking of employing a girl to do nothing but pack the same. This was one of my ideas. Only one Pharmacist in a town supplied. Apply NOW.
BILLYARD ALLISON, PHARMACIST, RETFORD.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.
Shares for Sale (free of commission, subject).—200 British Oil Cake Ordinary, 14*s.* 1½*d.*; 50 Ilford Ordinary 14*s.* 9*d.*; 215 Lewis & Burrows 6 per cent. Preference, 12*s.* 3*d.* (full year's dividend due November); 150 Ordinary, 5*s.* 3*d.*; 10 Union Cold Storage 6 per cent. Preference, 20*s.* 10½*d.*; 35 A. J. White, bid wanted; 12 Benger's Ordinary, 38*s.* 9*d.*; 200 Peek, Frean 5 per cent. Preference, 20*s.* 6*d.*; 100 J. Knight Ordinary, 26*s.* 3*d.*
Wanted (subject).—120 Wright Layman Preference, 20*s.* 9*d.*; 120 Camwal Preference, 4*s.* 4½*d.*; 80 Lever Brothers "C" Preference, 20*s.* 4½*d.*; 60 15 per cent. Preferred, 40*s.*
List of Shares for *Sale* and *Wanted* sent free on application.
Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

FIRM of Manufacturers open to consider the Packing or Manufacture of suitable lines for the Chemists' or allied trades. Apply, 69/49, Office of this Paper.

SECOND-HAND Chemist's Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES.—TO SEASIDE PHARMACISTS.—Several all-glass Counters, Silent Salesman, and other money-making Showcases, second-hand and in excellent condition, ready for immediate despatch; genuine bargains; these cases make fresh business every time a customer calls. Write for particulars, PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.O.

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d.*

FOR DISPOSAL.

DRUGS AND CHEMICALS.

12 oz. cocaine hydrochlor., 10*s.* 6*d.* per oz.; all or part. Barnes, Chemist, Newton Abbot.

WHAT offers? about 1½ cwt. carnauba wax; sample if required. 220/38, Office of this Paper.

ABOUT 14 lb. bismuth. subnit., Howards'; will send in 1-lb. lots at 9*s.* 6*d.*, post paid. Hogg, Chemist, Ulverston.

WHAT offers? 2 cwt. insect flowers, 170 lb. pot. bromide, 25 oz. cocaine (Boehringer's). Crisp & Co., 100 Ladypool Road, Birmingham.

PROPRIETARY ARTICLES.

SEVEN 2*s.* 9*d.* Nurse Powell's female pills, clean, 11*s.* 6*d.* Dyson, Chemist, Crewkerne.

SHOP FITTINGS.

SCALES, French; weigh 2 lb.; accurate, stamped; 10*s.* 6*d.* Feltwell, 91 Hammersmith Road, W.

SERVICEABLE shopfittings; exceptional offer: nest 49 drawers, glass labels and glass knobs, and lockers, 10 ft. by 2, black polished; screen, 5 ft. by 3 ft., 3 glass doors, glass shelves, and mirrored back and ends; 4-ft. bent glass counter case. 136 High Street, Smethwick.

MISCELLANEOUS.

FOR sale, large water-bed, perfect condition. Vaughan, 12 & 14 Leeds Bridge, Leeds.

VEEDEE vibrator, with fittings; nearly new; what offers? Sharman, Pharmacist, Northwood, Middlesex.

WHAT offers? 5½ lb. pulv. cantharis; no reasonable offer refused; also Maw cachet machine, 882/R, quite new, and suppository mould for 12, fig. 2262/B. F. Pearce, Chipping Norton, Oxon.

OVERSTOCKED.—What offers? metal screw-cap pellet bottles, 3 drm. and 6 drm., also dram long tubes, suitable for toothache essence or little liver pills; bargain; sample sent. Cassie & Co., 49 Newgate Street, E.C.

WANTED.

PRESENT address of Miss E. Rance, formerly of 397 Clapham Road. 218/16, Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(*From the "Trade-marks Journal," August 12, 1914.*)

"MORLAR"; for chemicals (2). By S. P. Charges Co., St. Helens, Lancs. 361,870.

"KILMAG"; for insect-destroyers, etc. (2). By Wilkie & Soames, Ltd., Thames Soap and Candle Works, East Greenwich, S.E. 362,251.

"VIMETTES"; for pills (3). By Le Brasseur Surgical Manufacturing Co., Ltd., John Bright Street, Birmingham. 358,829.

"'PAGFRAGYZ,' PAGE'S WONDERFUL OINTMENT," etc., on circular label: for an ointment (3). By B. J. Page, Old Hill, Staffordshire. 361,835.

"LAXASE"; for medicinal chemicals (3). By Allen & Hanburys, Ltd., Plough Court, E.C. 361,997.

Label device, with word "LUX"; for washing preparations (3 and 47). By Lever Bros., Ltd., Port Sunlight, Cheshire. 357,913/4.

"CANGROLYT"; for all goods (3). By Farbwerke vorm. Meister, Lucius & Brüning, Hoechst/a/Main, Germany. 362,096.

"SALITHIA"; for medicinal chemicals (3). By T. Kerfoot & Co., Bardsley Vale Mills, Bardsley. 362,201.

"BONAVIVA"; for a medicated food (3). By T. Furniss, 2 Park Station Arches, Furnival Road, Sheffield. 362,301.

"TOWER BRAND," with picture of tower; for medicated soap and glycerin (3). By Hazlehurst & Sons, Ltd., 17 Highfield Street, Liverpool. 362,371.

"LUDYL"; for pharmaceutical preparations (3). By A. Naline, 12 Rue du Chemin Vert, Villeneuve-la-Garonne, France. 362,593.

"AJAX"; for scientific instruments, etc. (8). By A. Tothill-Naughton, 1 Newman Street, W. 362,379.

"SANSEME"; for indiarubber and guttapercha goods (40). By Leyland & Birmingham Rubber Co., Ltd., Leyland, Lancs. 361,881.

"MANDOLINE BRAND," with picture of mandoline; for food-substances (42). By A. V. Hart, 11 Arthur Street, E.C. 360,944.

Picture of Abingdon Abbey; for malt flours and extracts (42). By T. Skurray, 56 Stert Street, Abingdon, Berks. 354,614.

"EXTROSE"; for goods (42). By F. Kendall & Son, Ltd., Birmingham Road, Stratford-on-Avon. 362,001.

"MYZINE"; for animal food (42). By the Molassine Co., Ltd., Tunnel Avenue, East Greenwich, S.E. 362,084.

"PORCUPINE," with picture of same, for goods (47); "RUSTIC," for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soapworks, Manchester. 362,099, 362,039.

"NESTOL"; for hair-preparations (48). By C. Nessler, 48 South Molton Street, W. 359,228.

"STRODONIA"; for toilet-preparations (48). By Strode, Cosh & Penfold, 10 Broadmead, Bristol. 361,383.

"FACIALETTES" and "FACIALOID"; for perfumery, etc. (48). By the Facialoid Manufacturing Co., 72 Farringdon Street, E.C. 361,390/1.

"TOZANA"; for all goods (48). By E. Snowman and J. Sions, 14A New Bond Street, W. 361,575.

"HENNAGLINTA"; for a toilet-preparation (48). By the Standard Tablet and Pill Co., Ltd., Hove. 362,130.

"BUKSHISH"; for perfumery, etc. (48). By the Erasmic Co., Ltd., Bank Quay, Warrington. 362,482.

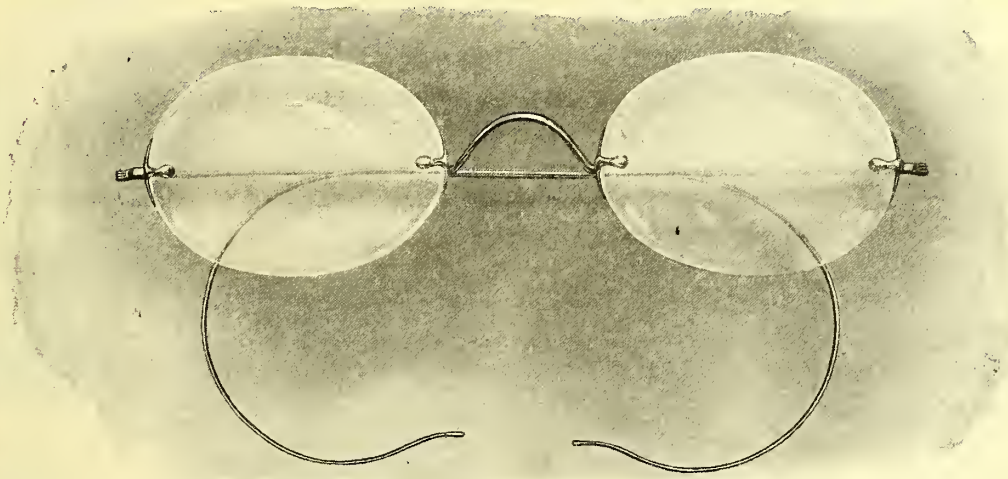
"BICROLIUM"; for perfumery, etc. (48). By Dearborn, Ltd., 32 Theobald's Road, W.C. 362,577.

"PENSÉE INTIME" and "TENTATION"; for perfumery, etc. (48). By Morny Frères, Ltd., 201 Regent Street, W. 362,587/8.

"FUN"; for polishes, etc. (50). By C. Thomas & Bros., Ltd., Bristol. 362,420.

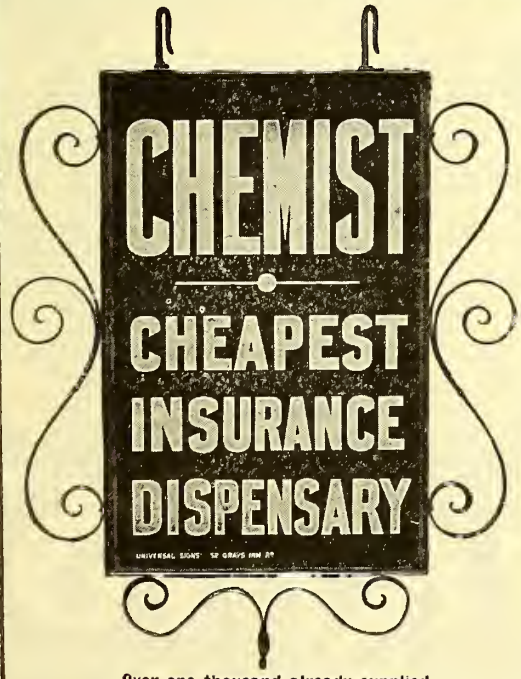
Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*August* 29, 1914. [80]

DIFFICULT PRESCRIPTION WORK A SPECIALITY



RAPHAEL'S LTD., Optical Works, Hatton Garden, London, E.C.

DOUBLE YOUR TURNOVER!



Over one thousand already supplied.

It's no good being up-to-date inside your shop unless you let the man in the street know it.

THIS SIGN
COMMANDS ATTENTION,
and will pay its cost in a week.

Solidly constructed and handsome in appearance, it is sent out fitted up internally and complete, ready for erection, which can be done by your local jobbing man at trivial expense.

GLAZED BOTH SIDES with best translucent white opal, engraved in black or colours as desired. Size of glasses 24 in. by 15 in., ANY DESIRED WORDING.

PRICE

Fitted up for GAS	£3	12	0
Fitted up for ELECTRIC	2	12	0

EXTRAS

Bracket and top stays		8	0
Ruby glass with white letters in place of engraved opal		6	0

OTHER SIGNS EQUALLY CHEAP.

Send for Catalogue (state whether "Gas" or "Electric").

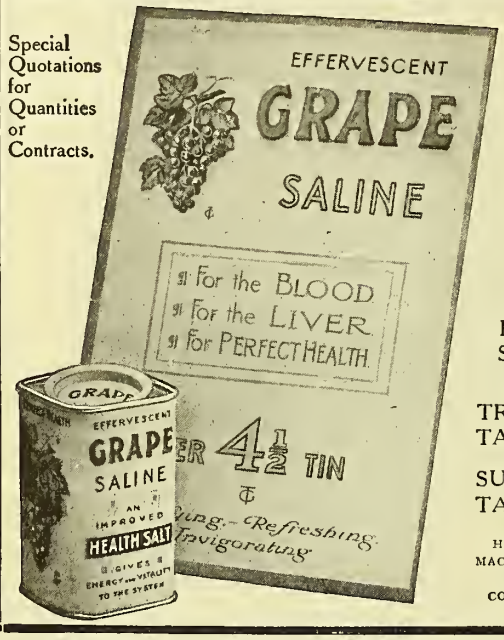
UNIVERSAL SIGN WORKS,
CHEMISTS' DEPARTMENT,
52 GRAY'S INN ROAD, LONDON, W.C.

THOS. GUEST & CO., City Works: Carruthers Street and Piercy Street, **Manchester.**

Telephone: 235 CENTRAL. *Medicated Confectioners.* Telegrams: "GUESTO."

Spring and Summer Lines.

Special Quotations for Quantities or Contracts.



Manufacturers of

CITRATE OF MAGNESIA in ¼-lb., ½-lb., 1-lb Bottles, and in bulk.

EFFERVESCING SALINES,

HYGEIA SALT.

LIME JUICE BLOOD SALT.

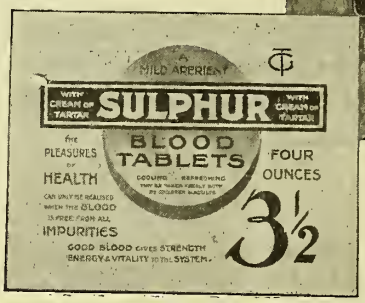
SULPHUR & SARSAPARILLA SALTS.

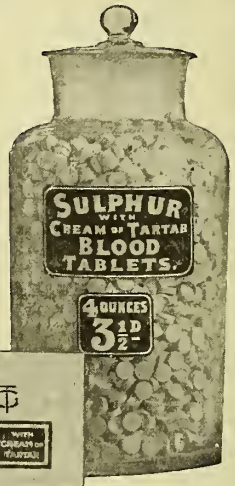
LIVER SALT.

BRIMSTONE and TREACLE TABLETS.

SULPHUR TABLETS.

HAND-MADE, MACHINE-MADE, AND COMPRESSED.





SPÁ-SAL TABLETS.
A New (2d. per ounce) Sulphur Tablet.

Prompt Sales
Increasing Demand
Quick Turnover
Protected Price

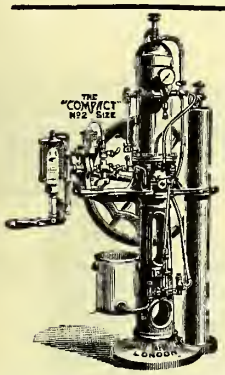
You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis" because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

COLEMAN & CO., Limited,
Wincarnis Works, Norwich.

WINCARNIS

BARNETT & FOSTER

11 GOLD MEDALS. *The Best House in the World for all requirements of the Mineral Water Trade.* **49 HIGHEST AWARDS.**



THE "COMPACT" complete Soda-water Machine

For use with Compressed Carbonic Acid Gas is specially designed FOR CHEMISTS, and is provided with one or more filling machines.

Occupies little space. Ready for immediate use. Requires no fixing.

Produces Soda-water, Lemonade, etc., of the highest quality and greatest purity.

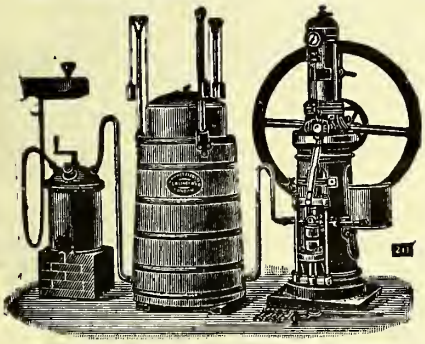
PRICES—

No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles *and* Syphons ... £60
No. 2.—Capacity 600 dozen per day, including Filling Machines for Bottles *and* Syphons ... £48
No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles *or* Syphons ... £33

We also make a smaller machine at £20.

THE PERFECTION OF SIMPLICITY. AUTOMATIC CARBONATION.

To those who can spare space in which to generate their own gas, we offer the "Niagara" machines advertised below.



THE "NIAGARA" Soda-water Machine

(Continuous Action).

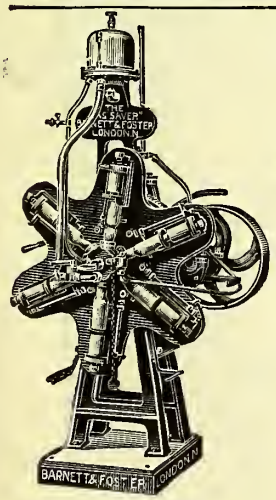
This machine is superseding all other types for the manufacture of FIRST-CLASS Aerated Waters, and is in use in most of the leading manufactories throughout the world.

PRICES, COMPLETE, from £30,

FITTED FOR HAND AND POWER

Particulars of Larger Sizes on application.

NOTE.—These machines are sent out by us complete and ready for work. We include all necessary connecting pipes ***without extra charge.*** No "extras" to pay for after buying our machines.



THE "GAS-SAVER," Price £60

STUDY QUALITY—AS CHEMISTS MUST—

By Bottling on our Latest Types of Filling Machines. We Guarantee the

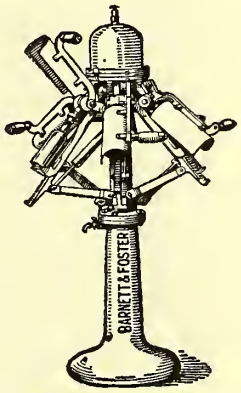
Highest Quality Soda-water at 60-lb. Pressure!

thereby Saving Gas, avoiding Bottle-breakage and improving quality of Products.——The secret:

BACK PRESSURE—PROPERLY APPLIED.

Particulars of the "GAS-SAVER," for filling Codd's and Niagara Bottles; The "ROUNDABOUT," for filling Corked, Crowned and Screw Bottles sent on application.

SAVE MONEY.

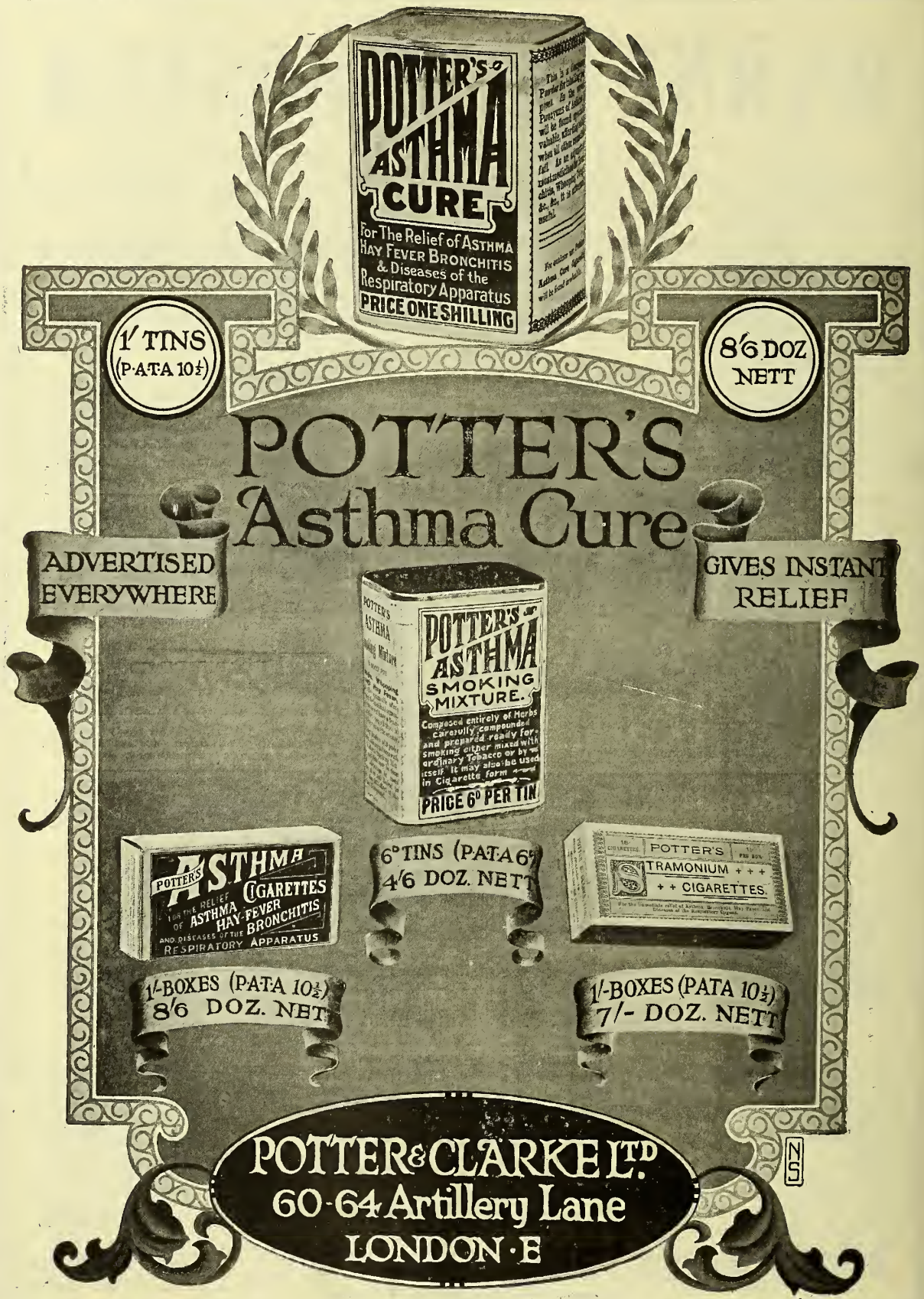


THE "ROUNDABOUT," in 6 sizes, prices from £25

CATALOGUE of all our Manufactures, Including Syphon-filling Machines, Syphons, all classes of Bottles, Modern Bottle-washing Appliances, Ice and Refrigerating Plant, Essences, Flavourings and Drugs, and every requirement of the trade sent FREE on application to—

NIAGARA WORKS, 26T EAGLE WHARF ROAD, LONDON, N.,

AND AT BOLTON, LANCS.


POTTER'S ASTHMA CURE
For The Relief of Asthma Hay Fever Bronchitis & Diseases of the Respiratory Apparatus
PRICE ONE SHILLING
1/ TINS (P.A.T.A 10½)
8/6 DOZ NETT
POTTER'S Asthma Cure
ADVERTISED EVERYWHERE
GIVES INSTANT RELIEF
POTTER'S ASTHMA SMOKING MIXTURE.
Composed entirely of Herbs carefully compounded and prepared ready for Smoking either mixed with ordinary Tobacco or by itself. It may also be used in Cigarette form
PRICE 6D PER TIN
6D TINS (PATA 6½)
4/6 DOZ. NETT
POTTER'S ASTHMA CIGARETTES
FOR THE RELIEF OF ASTHMA HAY-FEVER BRONCHITIS AND DISEASES OF THE RESPIRATORY APPARATUS
1/-BOXES (PATA 10½)
8/6 DOZ. NETT
POTTER'S TRAMONIUM + + + + + CIGARETTES.
1/-BOXES (PATA 10½)
7/- DOZ. NETT
POTTER & CLARKE LTD.
60-64 Artillery Lane
LONDON·E
NS

"FERROCARNIS"

A pleasantly flavoured solution of iron in organic combination with BRAND'S Concentrated Raw Meat Juice.

Ferrocarnis combines the stimulating properties of meat juice with the tonic effect of iron. This product does not cause constipation, and thus affords a means of administering iron to patients who are unable to take ordinary iron preparations.

PREPARED BY

BRAND & CO., LTD., MAYFAIR WORKS, SOUTH LAMBETH ROAD, S.W.

Do You Sell
Sister Lauras Food?

The question is often asked nowadays.
The Chemist who does not stock Sister Lauras Food is missing a good line.
Sister Lauras Food is achieving great success as a preparation for weakly babes and for invalids and the aged.
It makes milk digestible and is invaluable in cases of malnutrition.
It is a thoroughly reliable line and one that brings a handsome return.

Samples and advertising matter free on application.

SISTER LAURAS INFANT FOOD CO., Ltd., 156 Vincent Street, GLASGOW.

Hang the Wallpaper
WITH
"DAXO"
Adhesive Paste Powder

A **2d.** Packet makes 2 gallons Perfect Paperhanging Paste, simply with the addition of Boiling Water.

SOLE MANUFACTURERS—
HOLIDAY & CO., CITY MILLS, DURHAM.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	6d.	3 6
* " " " " "	1/-	7/-
* " " " " bottles in cartons	1/6	10/6

** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.
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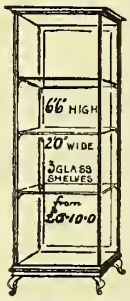

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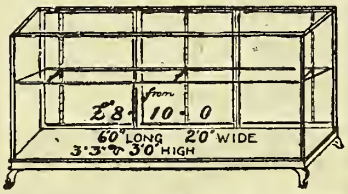

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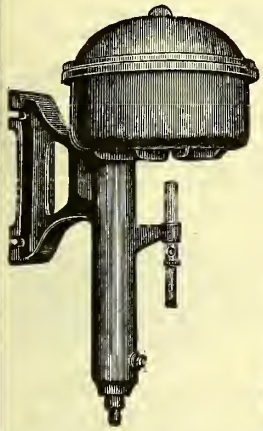

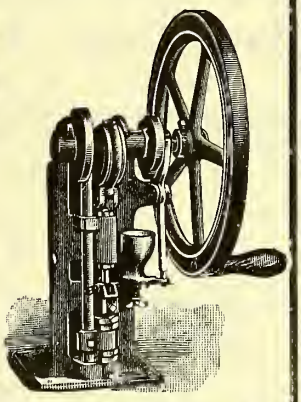

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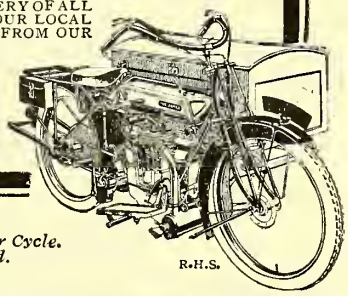

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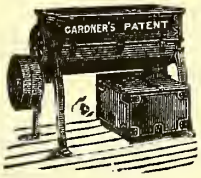

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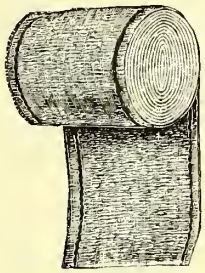

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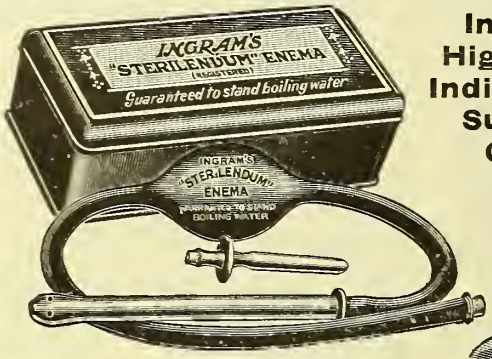

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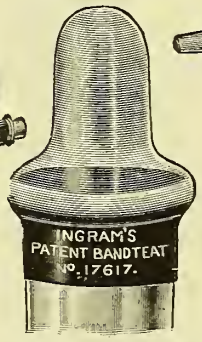

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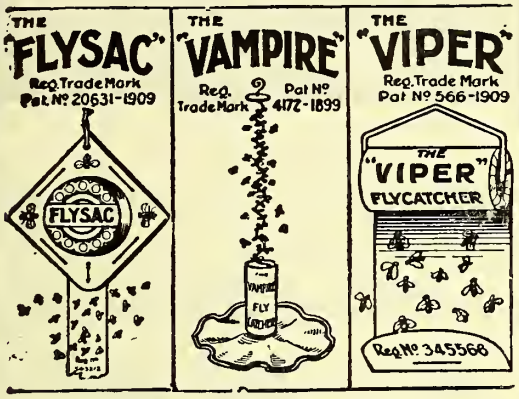

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No. 4023 CITY. AUGUST 29, 1914. LONDON & DUBLIN.

TO OUR CUSTOMERS.

The Directors believe that the following reports of the position at the moment from the managers of the various Departments will be of interest to our friends.

Patents Department. In accordance with the "May, Roberts' Policy," the entire stock held by us at the date of the Declaration of War is at the disposal of our customers at the ordinary List Prices, and we are only advancing prices when compelled by increased prices on the part of the manufacturers or agents. We are glad to be able to advise our friends that shortages are not yet very serious, and consist mainly of small lines of Continental origin for which there is only a limited demand.

We understand that the stocks of "Aspirin" and Knoll's Preparations in London are good, and no shortage is anticipated for some time. Lysol, we are given to understand, is now being made in England, and although at the moment there is some difficulty in obtaining stock in quantity this will shortly right itself.

We have good stocks of the well-known brands of Eau de Cologne which, in spite of the present shortage, we are still supplying to our regular customers at the ordinary List Prices.

On the other hand, our stocks of Continental Perfumery and Toilet Preparations are very nearly exhausted, and we see no immediate prospect of further supplies. In cases where we are requested to specially obtain French or German productions, prices are very high and quite outside our control.

We are pleased to note that various advances have been withdrawn—notably, Milo Food and Chivers' Jellies. We would remind our friends that in neither of these instances have we advanced our prices, but have given them the full benefit of our stock at the List Prices all along.

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Photographic Department. Advances at the present are few, but the market is very uncertain, and we are unable to quote any definite prices for Photographic Chemicals.

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Fancy Stationery. There are no advances in price at present as we have good stocks. We would recommend our customers to study the special supplement in our Price List.

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Sundries Department. Our stocks of many lines for which there has been exceptional demand are exhausted and we are compelled to advise our customers of the following inevitable advances in prices, which we think they will find favourable, compared with those of other houses.

PRINCIPAL ADVANCES :—

Wool, Antiseptic ...	+ 15%	Sandringham Crêpe Bandages ...	+ 5%
Boric Lint	+ 10%	Boxes, Cardb. generally	+ 10%
Gauzes	+ 25%	Caustic Points ...	+ 10%
Gamgee and Gauze Tissue	+ 10%	Willow Boxes ...	+ 25%
Water Dressing Bandages ...	+ 15%	Certain lines of Leather Goods ...	+ 10%
Plaster of Paris do.	+ 20%	Vegetable Parchment Bags ...	+ 20%

India Rubber Tubing and Teats. — Foreign supplies are running low and we shall shortly have to use English makes at greatly enhanced prices.

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Glass Department. We had heavy stocks at the date of the Declaration of War, the benefit of which we are giving to our customers at regular prices. Supplies of foreign bottles are very limited, and in cases where we are compelled to purchase an advance of 10% is demanded. We are, however, in co-operation with some of the English Bottle Makers, working to replace all foreign bottles by those of English Manufacture. Owing to the necessity of new moulds being made, etc., it will take some time before full supplies can be guaranteed. We are confident that we shall eventually be in a position to offer our friends such bottles at very slightly increased prices compared with those they have been in the habit of paying.

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Drug Department, Bulk. Our original stocks of drugs of Continental origin such as Potash Salts, Salicylates, &c., are now exhausted, and we are able to accept orders at open prices only and in limited quantities.

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Packed Drugs. There are very few advances in prices as our stocks were good at the date of the Declaration of War. Saccharine Tablets, Acetyl-Salicylic Acid Tablets. Potash Permanganate, etc., can only be procured in small quantities at very high prices. We have a small stock of Sugar of Milk in ½-lb. and 1-lb. packages which we are supplying to our regular customers in small lots at the old prices.

□ □ □

Export Department. After some delay, shipments are now being resumed and we are in a position to execute orders promptly for the majority of lines in our list. Difficulty is still experienced in the shipment of some classes of goods owing to the uncertainty as to the scope of the Government prohibitions, but their number is being reduced daily.

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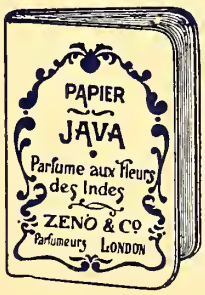

Surgical Instruments
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Druggists' Sundries.

NOTICE.

¶ At the present time when stocks of Surgical Sundries have been so largely depleted by the demands made on them by the Government and the many Charitable Organisations in the United Kingdom, it is perhaps not unnatural that the Pharmacist will experience some anxiety not only regarding his supplies in this direction but also as to the figures he may be called upon to pay for them.

¶ We would mention that for the moment we are not making a general revision of our prices as a direct outcome of the War, and in a few cases only shall we be compelled in the near future to slightly increase them where the goods in question are produced in those countries at present engaged in war, and which in future will be of British manufacture.

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